

DDOT TRAFFIC SAFETY DATA COLLECTION & ANALYSIS

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AGENDA

- **Background**
- **Partners**
- **Goals and Objectives of Data Center**
- **Facilities and Equipment**
- **Data Collection and Analysis Efforts**
- **Additional Information**
- **Staff**

BACKGROUND

- **1998 – The Howard University Transportation Research Center (HUTRC) was established through an MOA between FHWA, DDOT & HU**
- **2008 - Center's role was expanded to include Traffic Safety and other data**
- **2010 – New Data Center Facilities**



PARTNERS

HUTRC aimed is to collect, analyze, report safety and other program-related data to support the vision of its partners:



GOALS

- **Robust Transportation/Safety Data Compilation and Analysis for:**
 - ❖ **Planning, Implementing and Evaluating Safety Initiatives and Programs**
 - ❖ **Enabling DDOT to meet MAP 21 Requirements**
- **Provide measured performance and statistics on roadway safety projects, including innovations.**

OBJECTIVES

1. Develop and sustain an effective process for providing timely, accurate, complete, uniform, and accessible traffic safety data.
2. Compile and analyze highway safety data:
 - Turning Volume Counts
 - Traffic Volumes
 - Vehicle Occupancy
 - Seat Belt Usage
 - Accident /Crash Data
 - Speed Data
 - Pedestrian data
 - Bicycle data

OBJECTIVES (Cont'd)

3. Conduct evaluations of implemented highway systems and programs (performance outcomes)

4. Prepare routine and customized reports and statistics; e.g.,:
 - Annual Crash Statistics Reports (for SHSP/HSIP)

 - Seat Belt Usage/Compliance Report

FACILITIES – DATA CENTER



Main Office and Server Closet

FACILITIES AND EQUIPMENT



LED Traffic Signal Luminosity Tests

EQUIPMENT



Traffic Volume/Speed/Classification

EQUIPMENT



Turning Movement Counters

EQUIPMENT



Speed Radar Guns

DATA COLLECTION AND ANALYSIS

- Annual Crash Statistics Reports for DC
- Annual Crash Statistics Report for CMVs
- Turning Movement Count Summaries
- ADT Reports with Vehicle Classifications
- Speed Studies Reports
- Seat Belt Usage Reports
- Crash Query Reports

CRASH QUERIES & STATISTICS

TARAS | Log In | Account

Traffic Accident Reporting and Analysis System [Home](#)

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[Standard Reports](#)

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[Pre-Defined Listings](#)

[Query and Listing](#)

[Query and Chart](#)

[Map - Accident Summary](#)

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[System Management](#)

PLEASE LOG IN

Username:

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The District of Columbia
Department of Transportation

TRAFFIC VOLUME REPORTS

d. Refresh Bookmark Help TMS
Transportation Data Management System

TCDS TMC TCS TIDS PMS PMDS RSMS PCDS PMMS WOTS RTTY

Login auto-locate OFF

OPTION 1 - SEARCH BY MAP
 Use the Map Tools to zoom to an area. Then click a marker or Select by Polygon to review locations. Markers may not show up until zooming in closer.

OPTION 2 - SEARCH BY DATA - TMS
 Enter search criteria below. Then click the "Search" button.

Int ID

County

Community

Road Name' Exact Match

Road 2 Name' Exact Match

Jurisdiction ALL

Synchro Zone ALL

TMC Done ALL

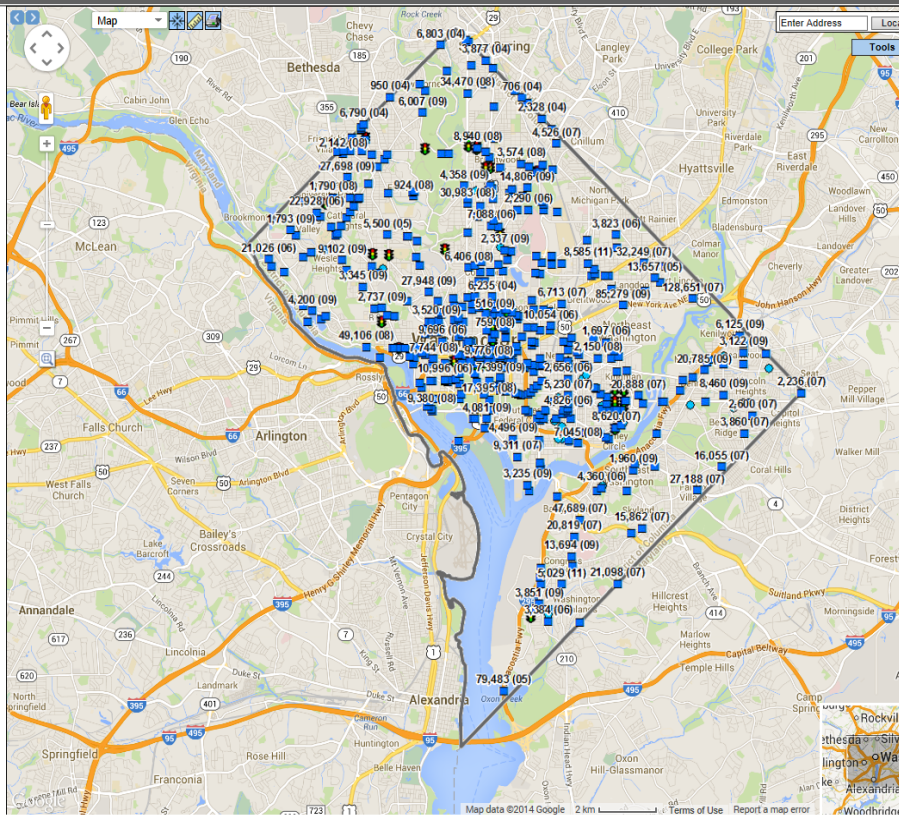
TMC Date Range From: To: (MM/DD/YYYY)
 Enter both, "To" or "From" for date range.

Search Build Search Reset Search

¹ - Enter all or part of the road name. You can exclude prefixes and suffixes like "NW", "S", "Rd", "St", "Ln".
[Click Here](#) for a quick help reference guide (3mb PDF)

Browser Info

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MIDWESTERN SOFTWARE SOLUTIONS

ADDITIONAL INFORMATION

- **Collaboration supports students' educational goals in becoming future transportation engineers**
- **Provides resource for graduate thesis topics promoting career goals**
- **HUTRC supports DDOT in meeting some of the requirements of MAP 21**
- **Serve as an external resource for DDOT**

ADDITIONAL INFORMATION

- **Expansion of roles to include:**
 - Vehicle detection data analysis
 - Permanent Count Station data analysis
 - Weigh-in-motion data analysis
- **Additional support for students**

STAFF

- **Director - Dr. Errol Noel, P.E.**
- **Assoc. Director - Dr. Stephen Arhin, P.E., PTOE**
- **Program Manager**
- **IT Manager**
- **6 Graduate Students**
- **5 Undergraduate Students**
- **Howard University Faculty engaged on as needed basis**





Questions?

**More
Information?**

THANK YOU!



HOWARD UNIVERSITY
TRANSPORTATION RESEARCH CENTER

