

Overview of the Highway Safety Information System (HSIS)

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Office of Safety R&D

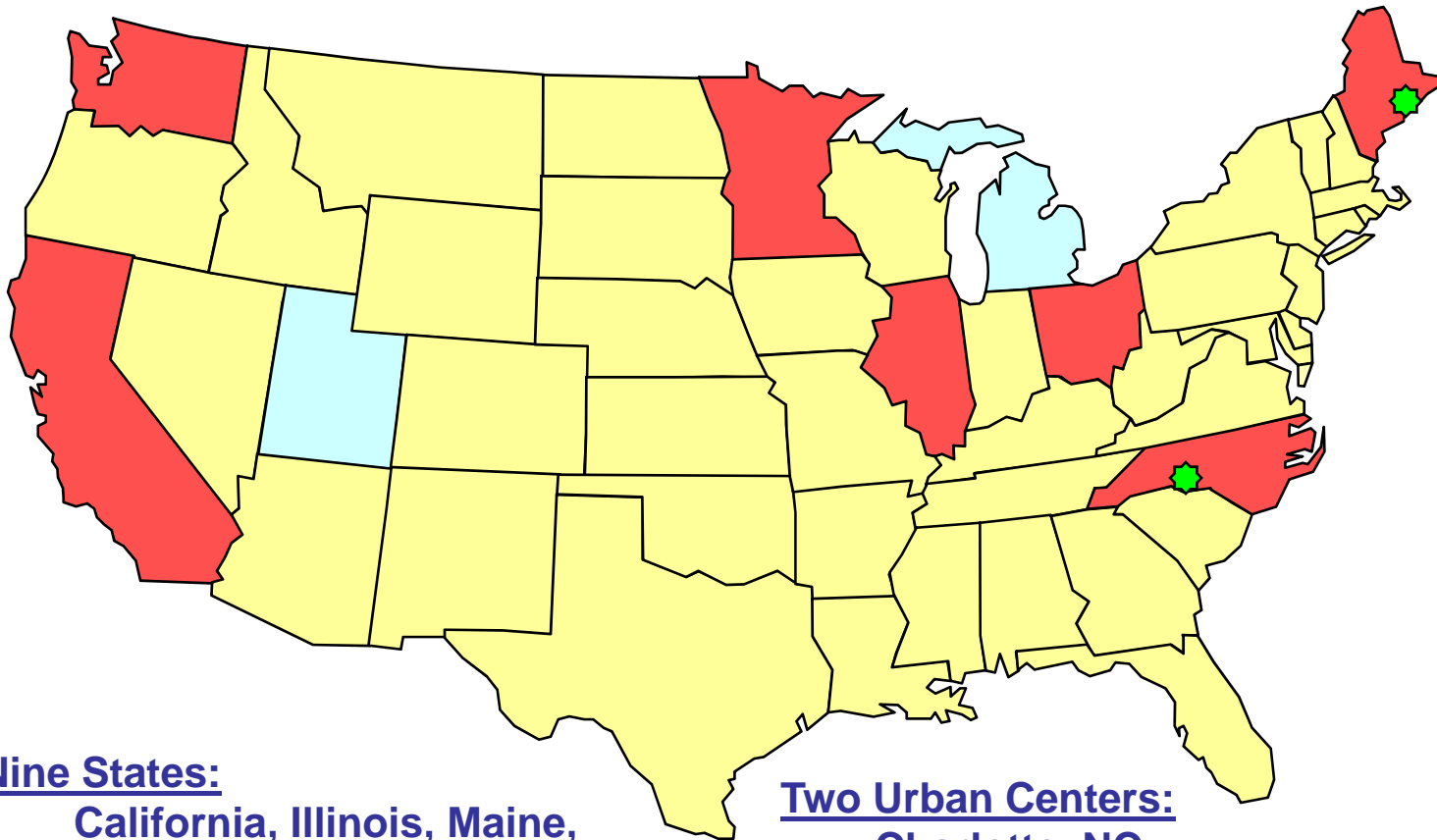
Overview of the HSIS

- What is the Highway Safety Information System?
- What is the HSIS purpose?
- What does the HSIS do?
- Who uses the HSIS?
- What has HSIS produced?
- How can you request HSIS data?

What is the HSIS?

- **HSIS is a database that includes:**
 - crash,
 - roadway inventory,
 - traffic,
 - driver,
 - vehicle, and
 - other information.
- **Files can be linked for a wide spectrum of safety studies.**

HSIS States and Urban Centers



Nine States:

California, Illinois, Maine,
*Michigan, Minnesota,
North Carolina, Ohio, *Utah
and Washington

*inactive

Two Urban Centers:

Charlotte, NC
and BACTS
(Bangor), ME

HSIS File Types

	CA	IL	ME	MI	MN	NC	OH	UT	WA
Crash	X	X	X	X	X	X	X	X	X
Roadway Inventory	X	X	X	X	X	X	X	X	X
Traffic Volume	X	X	X	X	X	X	X	X	X
Curve and Grade		X						X	X
VIN		X		X		X	X		
Intersection	X				X				
Interchange Ramp	X		X	X					X
Guardrail/Barrier			X						

Quantity of Data in HSIS

	1 st Year Available	Average Accidents/Year	Roadway Mileage
California	1991	160,000	15,300
Illinois	1985	120,000	15,400
Maine	1985	39,000	19,800
Michigan	1985	145,000	9,500
Minnesota	1985	77,000	51,000
North Carolina	1991	97,000	34,200
Ohio	1993	75,000	16,800
Utah	1985	46,000	9,300
Washington	1997	38,000	7,200

HSIS Urban Center Data

- Pedestrian and Bicycle volume
- Traffic calming installation
- Signal timing
- Bicycle path inventory
- Sidewalk inventory
- Transit information
- GIS format

Purpose of the HSIS

- To develop safety-related knowledge and to assist other researchers in developing this knowledge
 - Acquisition of safety data from multiple jurisdictions, quality checks, and conversions of data to research-friendly formats.
 - Distribution of data to researchers outside FHWA for external studies.
 - Use of data for internal FHWA research efforts.

What Does the HSIS Do?

- Provides data to a wide variety of highway safety researchers (often in support of other national research programs, such as NCHRP);
- Conducts research to support FHWA's focus areas;
- Supports development and use of data collection and analytical tools for the study of highway safety.

HSIS Users

- **USDOT**
 - FHWA
 - NHTSA
 - NTSB
 - FMCSA
 - BTS
- **CDC**
- **EPA**
- **NCHRP**
- **Universities**
- **State DOT's**
- **MPO's**
- **Contractors/consultants**
- **IIHS**
- **Carfax**

HSIS Products

- **Data**
 - Safety Effects of Differential Car/Truck Speed Limits
 - Data for developing tools in the *Highway Safety Manual*: NCHRP Projects 17-25, 17-27, 17-29
 - Validation and Testing of FHWA’s “SafetyAnalyst” software
 - Factors Contributing to Pedestrian/Bicycle Accidents on Non-Urban Highways
 - Safety
 - Effects of Shoulder Rumble Strips on Two-Lane Rural Roads
- **HSIS Summary Reports**
- **Journal Articles**
- **Tools**
 - Pedestrian and Bicycle Crash Analysis Tool (PBCAT)
 - GIS Safety Analysis Tool
- **Website: www.hsisinfo.org**

HSIS - Highway Safety Information System - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.hsisinfo.org/index.cfm?num=1

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HSIS
HIGHWAY SAFETY INFORMATION SYSTEM

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What Is HSIS?

The Highway Safety Information System is a multistate database that contains crash, roadway inventory, and traffic volume data for a select group of States. The HSIS is operated by the [University of North Carolina Highway Safety Research Center](#) (HSRC) and LENDIS Corporation, under contract with [FHWA](#).

Freeway	67.1	40.2	47.5	23.1	63.9	31.8	73.1	27.9
Multi-Lane Divided	59.1	43.0	42.6	27.8	45.6	32.5	60.3	40.4
Multi-Lane Undivided	58.2	42.7	41.9	28.5	42.6	30.6	58.9	42.6

State Data

The participating States were selected based on the quality of data available, and their ability to merge data from the various files. Click on the map below for more information.

- California
- Illinois
- Maine
- Michigan
- Minnesota
- North Carolina
- Ohio
- Utah
- Washington

Products

Safety Effects of Using Narrow Lanes and Shoulder-Use Lanes to Increase the Capacity of Urban Freeways:
[download report ->](#)

Data

New guidebooks now available online for California, Illinois, Maine, Michigan, Minnesota, North Carolina, Ohio, and Utah.
[view guidebooks ->](#)

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start | Calendar - Microsoft ... | Microsoft PowerPoint ... | HSIS - Highway Safet... | 12:00 PM

Requesting HSIS Data

- Go to the HSIS website (www.hsisinfo.org)
- Select “data”

?num=1




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New guidebooks now available online for...

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HSIS
HIGHWAY SAFETY INFORMATION SYSTEM

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state statistics
generic variable tables
guidebooks
data request

Data

The HSIS uses data already being collected by States for the management of the highway system, for the study of highway safety. The HSIS is a roadway-based system which provides quality data on a large number of accident, roadway, and traffic variables. The data are acquired annually from a select group of States, processed into a common computer format, documented, and prepared for analysis.

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→ **Generic Variable Tables**

Examine the variables available from each of the HSIS states.
[view generic variable tables->](#)

→ **Guidebooks**

Guidebooks are now available for California, Maine, Minnesota, and Utah.
[view guidebooks->](#)

Requesting HSIS Data

- REVIEW the Generic Variable Tables
- Complete & submit the data request form



- [data home](#)
- [state statistics](#)
- [generic variable tables](#)
- [guidebooks](#)
- [data request](#)

NOTICE:

Data request must now be submitted on-line.

Data Request

The Highway Safety Information System (HSIS) is a cooperative endeavor funded by the U.S. Federal Highway Administration, with data voluntarily provided to FHWA by the participating States.

The system is designed to provide data to be used in research conducted in the general public interest, which is intended for publication in a scientific journal or other national publication. By submitting this request, the user is promising to follow these guidelines. Users wishing to obtain data for other purposes should contact the States directly. HSIS staff will be pleased to provide contact names and addresses.

Before filling out the form, please review the generic variable tables to see which variables are available for a given state or the guidebooks for detailed descriptions and definitions.

[Table Directions](#) (please read first)
[Table 1](#) - Accident, Vehicle, and Occupant Files
[Table 2](#) - Roadway and Roadway-Related Files
[Guidebooks](#): Michigan, California, Maine, Minnesota, Utah

If you have any questions, please contact:

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 HSIS Laboratory
 6300 Georgetown Pike, Room T-211
 McLean, VA 22101
 Fax: (202) 493-3374

1. Please enter your name, contact information.

Name: *

Address 1: *

Address 2:

City: *

State: *

Zip Code: *

Telephone No: *

Contact

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