



Highway Safety "Safety 365"

Transportation Information Center thanks its partners for their support and assistance



Pederal Highway Administration







The Need for Rural Road Safety





Roadway Geometry- Top of Grade



Roadway Geometry- Approaching Curve Near Bottom



Roadway Geometry- Upgrade View from Center of Curve



Truck at Final Rest



Developing Safety Priorities

• What do we need to know to be able to develop priorities and get approval?

• What can we do starting now?

What is the purpose of a Strategic Highway Safety Plan (SHSP)?

Each state is required to have a SHSP, which includes engineering, management, education, enforcement, and emergency service elements of highway safety as key factors in improving highway safety. In Wisconsin it can all come together at County Highway Safety Commissions.

WI SHSP 2023-2027



SHSP Priorities based on Data

Improve Safety Culture, Safety Data, Safety Technology	Increase Occupant Protection
Reduce Driver Distraction/ Improve Driver Alertness	Improve Safety of Intersection
Reduce Alcohol & Drug-Impaired Driving	Reduce Lane Departure Crashes
Reduce the incidence and Severity of Motorcycle Crashes	Improve Work Zone Safety
Improve Non-Motorist Safety	Curb Aggressive Driving/ Reduce Speed-Related Crashes

Improve Driver Performance (Teens, Older, and Competent)

Why focus on intersection crashes?

- Intersections are a small portion of the road system yet in Wisconsin they account for
 - 25% of all fatal crashes
 - 29% of all fatalities
 - 37% of all crashes
 - 50% of all non-fatal injuries
 - 39% of all incapacitating injuries
- Intersections always have points of conflict where drivers make critical decisions





http://safety.fhwa.dot.gov/roadwaydept/

Why focus on roadway departure crashes?



11

- Narrow roadway
- Pavement markings
- Poor stopping sight distance
- Steep side slopes
- Gravel and stones on the roadway

- Water on roadway
- No shoulder/edgeline

- Bleeding pavement
- Lack of delineation

- Trees in clear zone
- Limited sight distance
- Lack of signs and delineation

- Fixed objects in clear zone
- Unrecoverable steep side slopes

Safety Issue:Bridge structure is a fixed object

Safety Issue:

• Pavement edge drop-off

Safety Issues:

Faded pavement markingsConcrete fixed object

WHAT ARE POTENTIAL SAFETY ISSUES?



Safety Issue:Deteriorated sign retroreflectivity

Safety Issue:Fence blocks sidewalk path

SPECIAL

FIFCTIO

Safety for All Road Users













Challenges to Road Safety

Limited...

- Budgets
- Staffing
- Time
- Crash data
- Traffic and road information
- Understanding or awareness of safety issues
- Training

In addition to...

- Lack of coordination between agencies
- Competing priorities
- Politics
- Staff turnover
- Empowerment

Some Ways to Overcome Some Challenges



- Develop safety awareness
- Identify and train staff on what to look for
- Identify simple, low cost ways to improve road safety ...example in maintenance ops.
- Incorporate safety into the "Big Picture"



What are some of the safety issues that can occur in rural areas?

Related to

- Drainage problems
- Steep edge drop-offs
- Trees close to the roadway
- Poor lighting
- Sharp curves
- Steep hills
- Inadequate or poor signage



Name some common challenges to improving road safety.

- Limited budget and resources
- Lack of coordination between departments/staff
- Limited understanding of safety issues
- Limited training
- Politics
- Inadequate crash data



Highway Safety Improvement Program

- Projects to reduce the number and severity of crashes on all public roads
- Federal reimbursement program and NOT a federal grant program
- 90% federal HSIP funds available for most projects; 10% match required
- Applications due February 15th and August 15th
- Application requirements:
 - HSIP application form (DT1501), sketch of proposed project, collision diagram, crash history, site photos, itemized cost estimate



Typical Eligible Projects

- Spot
 - Intersection safety improvements (installing/modifying traffic signals, roundabouts, etc)
 - Straightening isolated curves or hills
 - Improving sight distance
 - Installing signs, pavement markings, and delineators
- Corridor
 - Corridor signal upgrades
 - Road diets and two-way left turn lane (TWLTL) conversions
 - Pavement marking and rumble strips above current standards
 - Chevrons



For More Information

- WisDOT Safety
 - <u>Wisconsin Department of Transportation Highway Safety Improvement</u> <u>Program (HSIP) (wisconsindot.gov)</u>
 - HSIP application materials available for download at this site
- WisDOT HSIP Staff
 - WisDOT Regional HSIP Coordinators and Safety Engineers
 - General program information
 - Questions about specific potential projects and applications
 - Statewide HSIP Manager
 - General program/policy information
 - Mike Finkenbinder, 608-266-1620, michael.finkenbinder@dot.wi.gov



Using *WisTransPortal* Crash Data Tools



30



TRAFTIC OPERATIONS & CALLEY LABORATORY

About

Status

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Home

Wisconsin Traffic Operations and Safety Laboratory The WisTransPortal Project

The WisTransPortal Project serves the computing and data management needs of the Wisconsin Traffic Operations and Safety (TOPS) Laboratory. The project scope includes support for ITS data archiving, real-time traffic information services, transportation operations applications, and transportation research. Learn more.

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Ouick Links Welcome to the WisTransPortal Crash Data Data Services WisTransPortal data requests and login account information. Traffic Data Data Products Lane Closures Traffic operations and engineering datasets and related resources. Traffic Incidents Traffic Video Web Applications WisTransPortal data retrieval and analysis tools, other Storm Report applications. ITS / Other

Help



Documentation

Database documentation, project architecture, and other documentation.

WisDOT Traffic Video

LINK video sharing and public safety information service.

Developer Resources

Resources for TOPS and WisTransPortal system development.

Last Modified on Thu, 02 Feb 2012, 11:06:32 AM. Please send comments to transportal@topslab.wisc.edu.

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31

WisTransPortal Data Hub

User Account Request Form

For assistance, see the account services page or email transportal@topslab.wisc.edu.

Step 1: To request a WisTransPortal login account, complete the information below and press Next . Required fields are marked with asteriks. Press Cancel to return to the account services page without completing your request.		
Title:		
*First Name:		
*Last Name:		
Desired User ID:	Ex: bbadger. See note below.	
*Email Address:		
*Confirm Email:		
*Job Title:		
*Organization:		
*Phone:	Ex: 555-5555	
*Resources:		
	Indicate which parts of the WisTransPortal you are requesting to access.	
Comments:	Identify what you want here	
	Next Reset Cancel	
	32	

Note: WisTransPortal User IDs are case sensistive. For example, "BBadger" and "bbadger" are treated as two



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TRAFFIC OPERATIONS & SAFETY LABORATORY

Home > Documentation

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Home	WisTransPortal Documentation		
Services	This page contains links to technical documentation and project overviews related to the WisTransPortal sytem. Resources containing system details are password protected.		
Products	Database Documentation		
Applications	WisTransPortal database documentation, data dictionaries, and related information. Password protected.		
Documents	Handouts and Presentations Handouts and slide presentations on key WisTransPortal operational areas. Password protected.		
Traffic Video	WisTransPortal ITS Project Architecture		
Resources	WisTransPortal ITS project architecture generated from Turbo. Public access.		
	<u>WisTransPortal System Metrics</u> WisTransPortal system statistics and performance measure reports. Public access.		

Last Modified on Sat, 07 May 2011, 02:09:40 PM. Please send comments to transportal@topslab.wisc.edu.

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Legend and Summary

INJSVR		Queried	Mapped	Selected	
	(K) Fatal	25	24	0	
	(A) Incapacitating	109	106	0	
	(B) Non-incapacitating	218	211	1	
	(C) Possible	315	300	6	
	(P) Property Damage	1208	1148	28	
Tota	al	1875	1789	35	

5

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Iowa County 130N at River Road AADT



WISCONSIN DEPARTMENT OF TRANSPORTATION

Travel Information

DMV | Safety | Travel | Plans & Projects | State Patrol | Doing Business | Programs for Local Gov't

<u>Travel</u> > <u>Travel assistance</u> >

Traffic counts

Historical traffic counts (2000-2010) Tra by county pass Vehicle miles of call travel repu

Traffic counts home

Traffic counts are reported as the number of vehicles expected to pass a given location on an average day of the year. This value is called the "annual average daily traffic" or AADT and are represented on traffic count or traffic volume maps. The AADT is based on a short-term traffic count, usually 48 hours, taken at the location. This count is then adjusted for the variation in traffic volume throughout the year and the average number of axles per vehicle.

Short-term counts are collected over a three-year cycle at nearly 26,000 rural and urban locations throughout the state. Data from 2000 to 2010 is available on downloadable <u>traffic count PDFs</u>.

Traffic counts are rounded according to the following scheme:

AADT Range	Rounding Scheme
0 - 999	Round to the nearest ten
1,000 - 99,999	Round to the nearest hundred
100,000 or more	Round to the nearest thousand

New→ WisDOT interactive traffic count map

The 2011 traffic counts are part of an <u>interactive map</u> that allows you to view traffic counts anywhere in the state. The search, pan and zoom features of the map are based on the Google Maps interface. The best way to search for a location in the address box is to insert "WI" after the community name. This will eliminate Google taking you to similar named locations elsewhere in the country.

Recommended browsers for best viewing: Internet Explorer 9, Mozilla Firefox and Google Chrome

Questions about the content of this page: Bureau of State Highway Programs, traffic.counts@dot.wi.gov Last modified: February 18, 2013

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Search DOT





The WI Bureau of Transportation Safety values local-knowledge-and localmanagement-of-crash-data. BOTS encourages Tra 7-Safety-Commissionsto use-Community Maps as an interactive-resource-for reviewing-fataland incapacitating injury-crashes at guarterly TSC meetings.-

- S. 83.013, Wisconsin Statutes
- (1) tra 🐺 safety commissions ... shall designate a person to prepare and maintain a spot map showing the locations of tra accidents on county and town roads and on city and village streets ...
- (2) the department [of transporl] tation] shall furnish a suitable map for use in spotting accidents.

ONSIN'S LTAP at the UNIVERSITY OF WISCONSIN-MAE



Wisconsin's multi-disciplinary Traffic Safety Commissions

TSCs

- Required by Statute
- •Fatalities (K) and Serious Injury Crashes (A)
- Includes all safety partners
- •Meets quarterly
- Data driven problem solving and coordination
- Traffic Safety Coordinator
- Assisted by BOTS

Wisconsin Bureau of Transportation Safety





WisDOT Bureau of Transportation Safety

REGIONAL PROGRAM MANAGERS

11-12-12

Iowa County -- Fatal Crashes in Community Maps



Search Results

Begin Date: 01/01/2006

Manner Of Collision: SELECT ALL

End Date: 12/31/2012 Crash Severity: FATAL

Checked Flags: NONE

Sort By: Location

SERG RD AT 18

05/12/2007 FATAL

07/11/2009

11/04/2010

11/23/2011

18 / 151 AT BB

151 (MP44) AT 23

FATAL

FATAL

FATAL

EDEN (T), IOWA County

CLAY HILL RD S AT 191

New Search

Counties:

- IOWA











Iowa County -- All Crashes In Community Maps



Home > Community Maps > Crash > Search



Community Maps - Crash Record Information for Wisconsin Data Populated by the TIC and Local Traffic Safety Stakeholders





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Map Satellite Hybrid Sauk Cr €�∌ Westport 14 Waunakee (78) 14 Middleton Ma 6 Mt Horeb 18 (18) Fitchb Verona Fennimore 18 88 Brooklyn Lancaster bco Widife Area Wildlife Area 4 Yellowstone Conservation Madison Platteville Area 1.5 mi



Rockford .

Terms of Use







Wisconsin River 133	County: Municipality: On: At: Date: Date: Severity: Manner: Result #:	IOWA CLYDE (T) 130 133 05/21/2011 Injury (UNKOWN): 1 Injury NO COLL W/VEH IN TRANS 13	×		мар	Satellite	Hybrid
	River.Rd						Cx
5	130	And		County	Rd C		

County:	IOWA
Municipality:	CLYDE (T)
On:	130
At:	133
Date:	05/21/2011
Severity:	Injury (UNKOWN): 1 Injury
Manner:	NO COLL W/VEH IN TRANS
Result #:	16

X

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Having a Safety Attitude... and Reading the Road



"Extra Eyes for Safety"

Reading the Road



Looking for indications that road users may be having problems travelling a section of roadway. 48

Yaw Marks

Scar on tree







Water on road

Object Marker

4-52

STÔP





Pedestrians in roadway

Tracks on gravel shoulder







Summary

- Explain the meaning of developing a "safety attitude." How can that be done?
- Explain how to "read the road." Give and example from your own experience.

57