

Módulo 4

NCHRP



NCHRP

SYNTHESIS 486

NATIONAL
COOPERATIVE
HIGHWAY
RESEARCH
PROGRAM

NCHRP

Synthesis 486

State Practices for Local Road Safety

A Synthesis of Highway Practice

State Practices for Local Road Safety



A Synthesis of Highway Practice

 TRANSPORTATION RESEARCH BOARD

The National Academies of

SCIENCES • ENGINEERING • MEDICINE

Relevant Findings NCHRP Synthesis 486

A listing of noteworthy practices of state coordinated programs aimed at local road safety was developed from the state survey and analysis of 10 states whose safety programs have achieved reductions in local road crashes.

47 state DOT's responded to the survey and major observations were made according to the survey data.

List of Relevant Findings

- ✓ MAP-21 has positively affected states in their ability, through significantly increased funding levels especially in the Highway Safety Improvement Program (HSIP)
- ✓ 33 states have experienced a reduction of fatal and serious injury crashes since the implementation of MAP-21 legislation.

List of Relevant Findings (cont.)

- ✓ Many states are coordinating with their Local Technical Assistance Program (LTAP) centers to address issues with local agencies on local road safety.
- ✓ Many states have adopted and/or support the Toward Zero Deaths (TZD) Initiative within its own Strategic Highway Safety Program (SHSP), in which states address reducing crashes on all public roads by employment of 4E approaches.

Relevant Finding Key Challenge

A challenge faced by state DOTs in addressing local safety projects were:

- The lack of local agency resources (44 states)
- The limit of state DOT resources (29 states)

Tools identified to address these challenges:

- Provide workshops, training and technical assistance
- Enhance communication
- Outreach and engagement with local agencies
- Procedures documented in local road manuals
- Comprehensive guidance and policy for local agencies

Future Research Needs

The use of the Highway Safety Manual (HSM) by local agencies has been very limited. Although Michigan state developed and has been implementing a training program to educate local agencies in the use of HSM through the LTAP, future efforts could be explored.

Development of a cost-effective traffic roadway inventory database system to facilitate the implementation of data-driven systemic safety approach.

Federal Highway Administration (FHWA) Resources

Highway Safety Improvement Program Reports

- <http://safety.fhwa.dot.gov/hsip/reports/>

Local and Rural Road Safety Program

- http://safety.fhwa.dot.gov/local_rural/

Roadway Safety Noteworthy Practices Database

- <http://rspcb.safety.fhwa.dot.gov/noteworthy/default.aspx>

State Strategic Highway Safety Plan

- http://safety.fhwa.dot.gov/hsip/shsp/state_links.cfm

Study Area: 10 States

1. Connecticut

2. Florida

3. Iowa

4. Louisiana

5. Michigan

6. Minnesota

7. Ohio

8. Oregon

9. Utah

10. Washington State

1. Connecticut



Crash Data Repository System (CTCDR)

Connecticut CTCDR is a web tool designed to provide access to select crash information collected by state and local police.

UConn

Connecticut Crash Data Repository

2. Florida

- Design-Build Push Button
- Local Agency Safety Funding Guide for Off-System Roadways
- Signal Four Analytics
- Fletcher Avenue Project



Tampa Bay Traffic Safety

Design Build Push Button



3. Iowa

- Traffic Safety Improvement Program (TSIP)
 - <http://www.iowadot.gov/traffic/tsip/tsipinstructions.pdf>
- Highway Safety Improvement Program (HSIP)



**Traffic Safety Improvement Program
Application Instructions**

(Revised May 2015)

Iowa Department of **TRANSPORTATION**

4. Louisiana

- Destination Zero Deaths (DZD) Initiative of the SHSP
- South Central Regional Transportation Safety Plan (SCRTSP)



5. Michigan

- Local Agency Program's Before/After Study
- Southeast Michigan Council of Governments Reliable, Quality Infrastructure



6. Minnesota

- Minnesota DOT offices: Office of Traffic Safety
- Towards Zero Deaths Regional Partnerships: local problems delegated to regional offices
- Highway Enforcement of Aggressive Traffic
- Minnesota Crash Mapping Analysis Tool



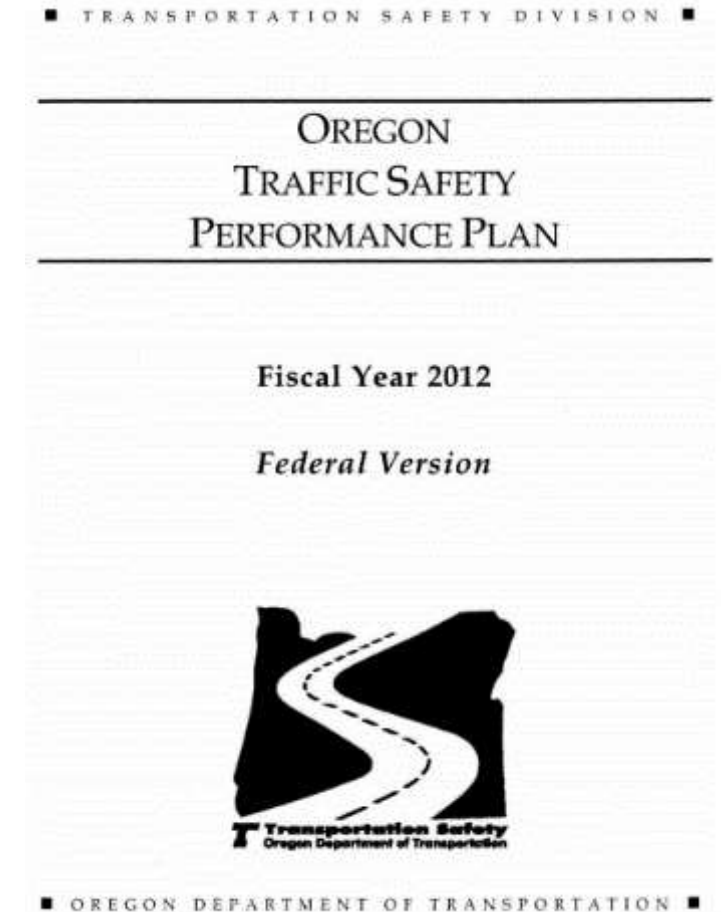
7. Ohio

- Highway Safety Programs
- Township Sign Safety Program
- Geographic Information System (GIS) Crash Analysis Tool



8. Oregon

- Local Agency Program
- All Roads Transportation Safety
- Performance Plans and Annual Evaluation
- Oregon Traffic Safety Performance Plan
- Safe Communities
- Transportation Safety Action Plan



9. Utah

- Zero Fatalities Program
- Asset Management
- Collection and Use of Roadway Asset Data in Utah
Roadway Safety Data and Analysis



zero
Fatalities
A Goal We Can All Live With

Roadway Safety Data Program



COLLECTION AND USE OF ROADWAY ASSET DATA IN UTAH

ROADWAY SAFETY DATA AND ANALYSIS

CASE STUDY
FHWA-SA-14-078

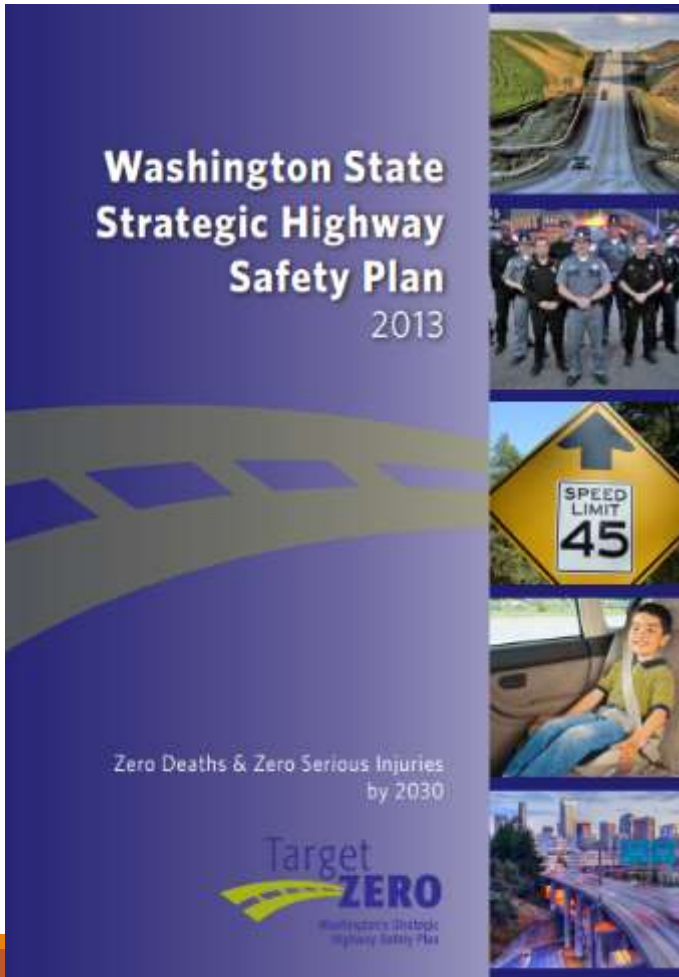
Prepared for
Federal Highway Administration
Office of Safety
Roadway Safety Data Program

<http://safety.fhwa.dot.gov/rsdp/>



August 4, 2014

10. Washington State



- Local Programs
- Strategic Highway Safety Plan
- Annual Collision Summary
- Tribal Transportation Program Safety Funds
- Highway Safety Improvement Program Reports



**Washington State
Department of Transportation**