



VISION ZERO
zero deaths • zero serious injuries

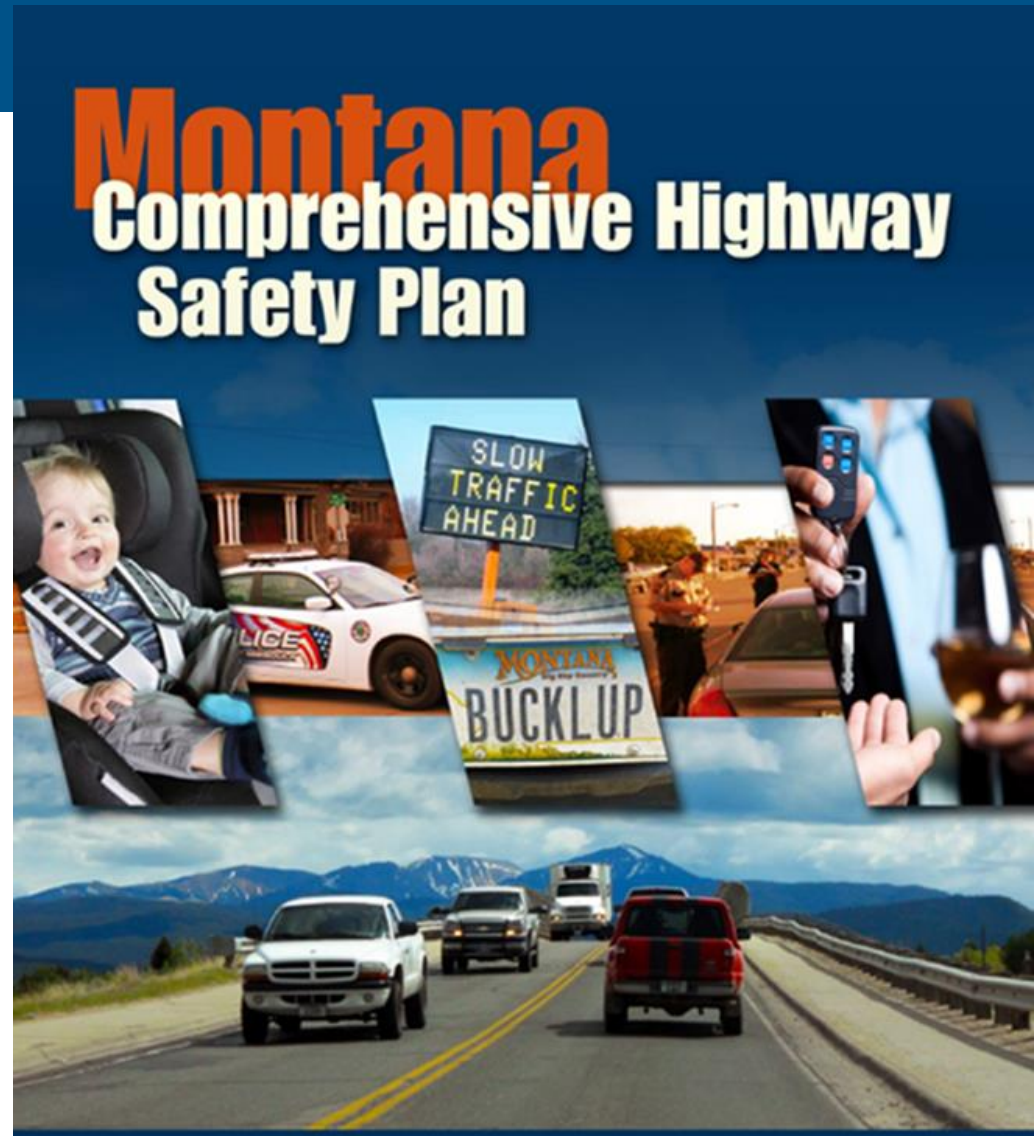
MONTANA DEPARTMENT
OF TRANSPORTATION

2018 Annual Transportation Safety Planning Meeting

CHSP Overview & Safety Targets

October 10, 2018
Helena, MT

Lynn Zanto, Administrator
Rail, Transit & Planning Division
Montana Department of Transportation



MONTANA
MDT
DEPARTMENT OF TRANSPORTATION
May 2015

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- CHSP Overview
- Montana Data
- Vision Zero & CHSP Interim Safety Goal
- Performance Measures & Safety Targets
- FAST Act Requirements
- Next Steps

CHSP Evolution

Montana Comprehensive Highway Safety Plan



State of Montana Department of Transportation

in cooperation with:
 Federal Highway Administration
 National Highway Traffic Safety Administration
 Blackfeet Tribe
 Confederated Salish and Kootenai Tribes
 Crow Tribe
 Chippewa Cree Tribe
 Little Shell Tribe
 Northern Cheyenne Tribe
 Fort Peck Tribes
 Fort Belknap Tribes
 Montana Highway Patrol
 Montana Office of Public Instruction
 Montana Department of Justice
 Office of the Court Administrator
 Federal Motor Carrier Administration
 Montana Metropolitan Planning Organization
 Montana Department of Public Health

prepared by:
 Cambridge Systematics, Inc.

Montana Comprehensive Highway Safety Plan

Amended 2010



State of Montana Department of Transportation



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 Cambridge Systematics, Inc.

August 2008

Montana Comprehensive Highway Safety Plan
 2015-2020

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CHSP Purpose Statement

Implement a collaborative process to reduce fatalities and serious injuries in Montana utilizing engineering, enforcement, education, and emergency response strategies.

The CHSP will seek to focus resources strategically, where opportunities for safety improvements are greatest.

Implementation Structure



Overarching Strategies

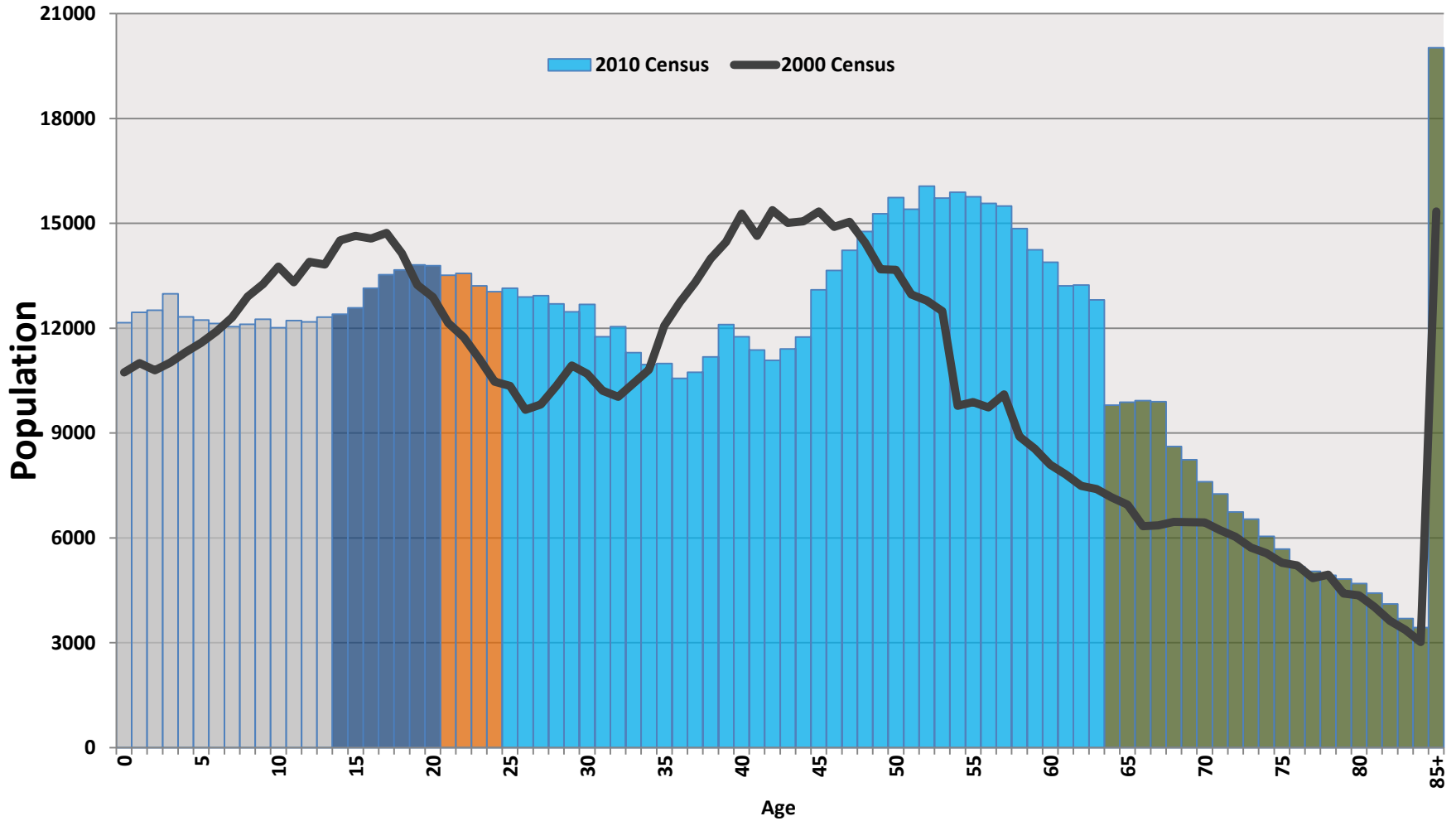
Improve the accuracy, completeness, integration, timeliness, uniformity, and accessibility of data used in traffic safety analysis

Support the essential role of EMS in reducing the severity of injury outcomes and the technologies and systems necessary to advance collaboration with all safety partners: and

Collaborate across agencies, organizations and with the public to improve the safety culture and promote the institutionalization of *Vision Zero*.

Montana Population by Age

2000 & 2010 Census

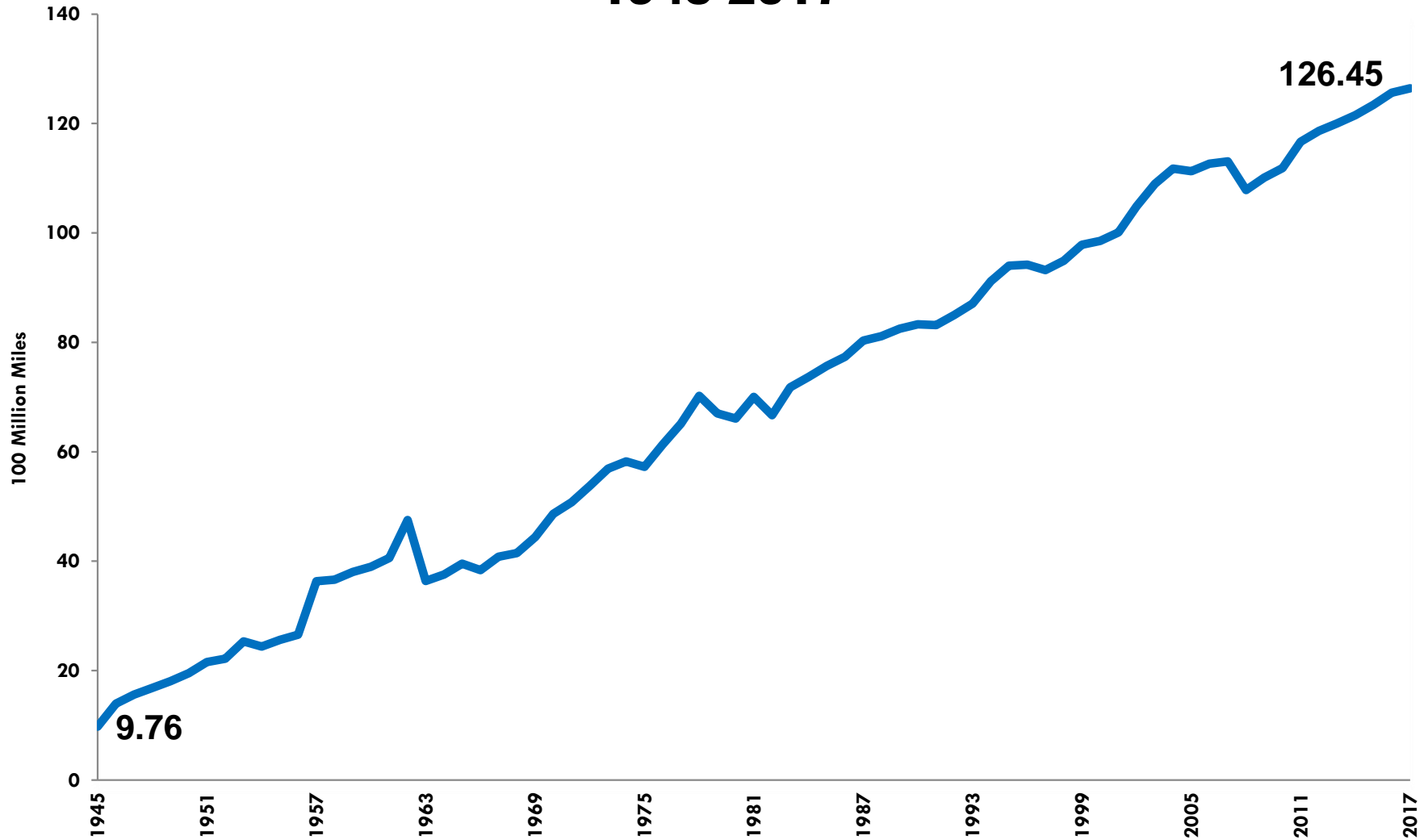


Montana Comprehensive Highway Safety Plan
2015-2020

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MT VMT Trends

1945-2017



Montana Comprehensive Highway Safety Plan
2015-2020

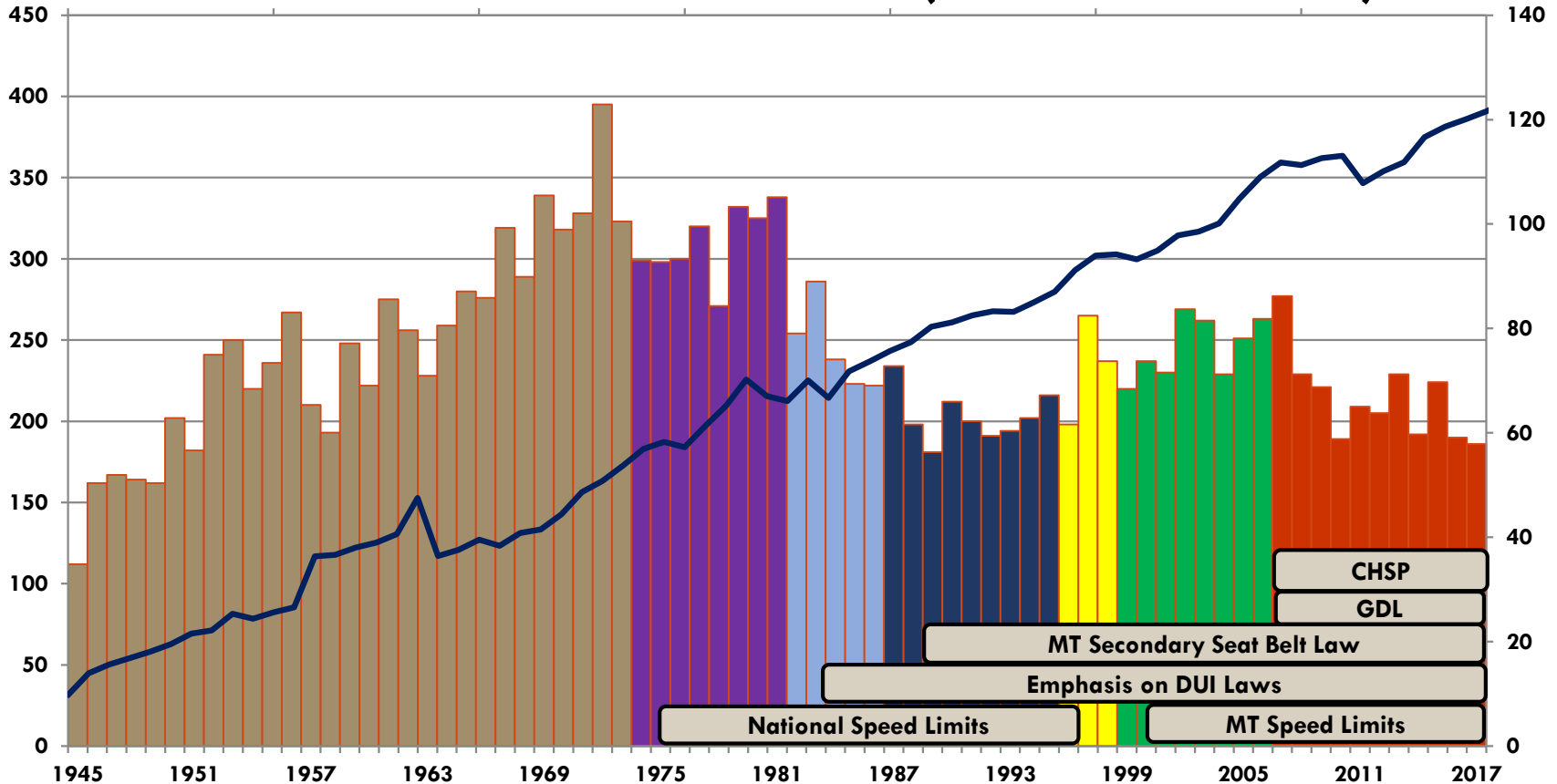
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Fatalities & Legislative Actions

1945-2017

Fatalities

VMT (100 Million Miles)



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2015-2020

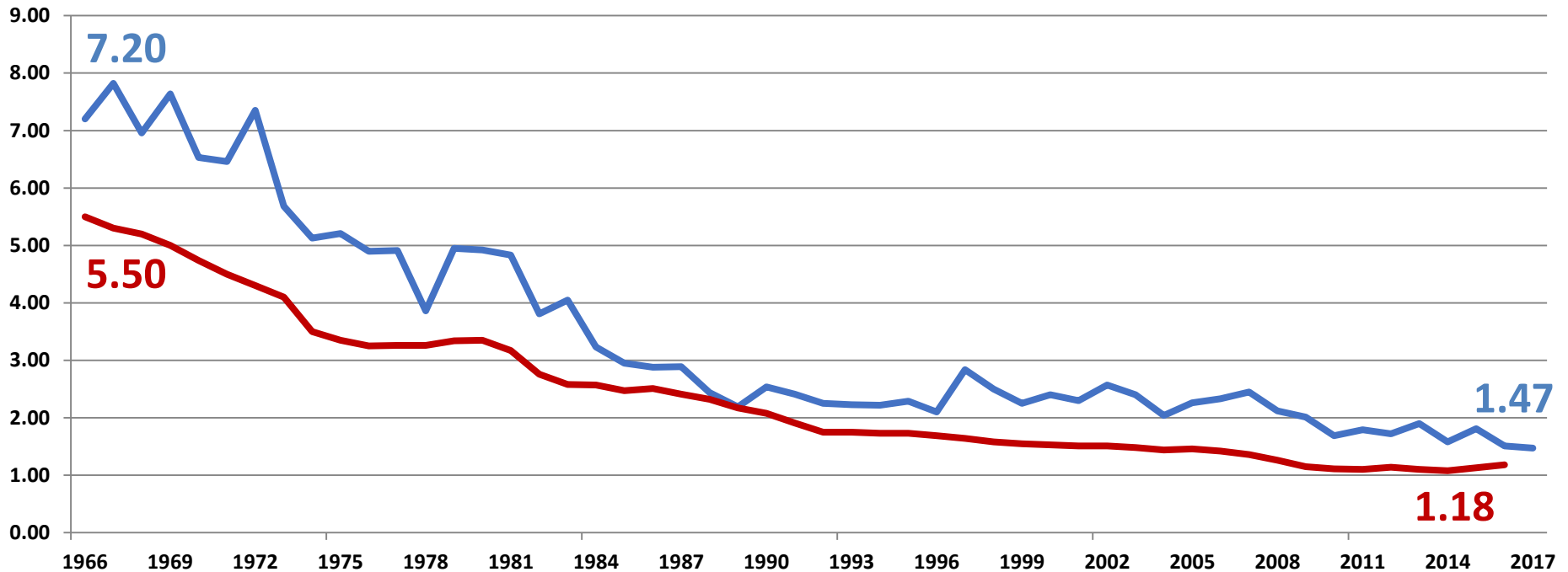
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Fatality Rates – MT vs. US

Fatality Rates (1966-2017)

— Montana

— USA

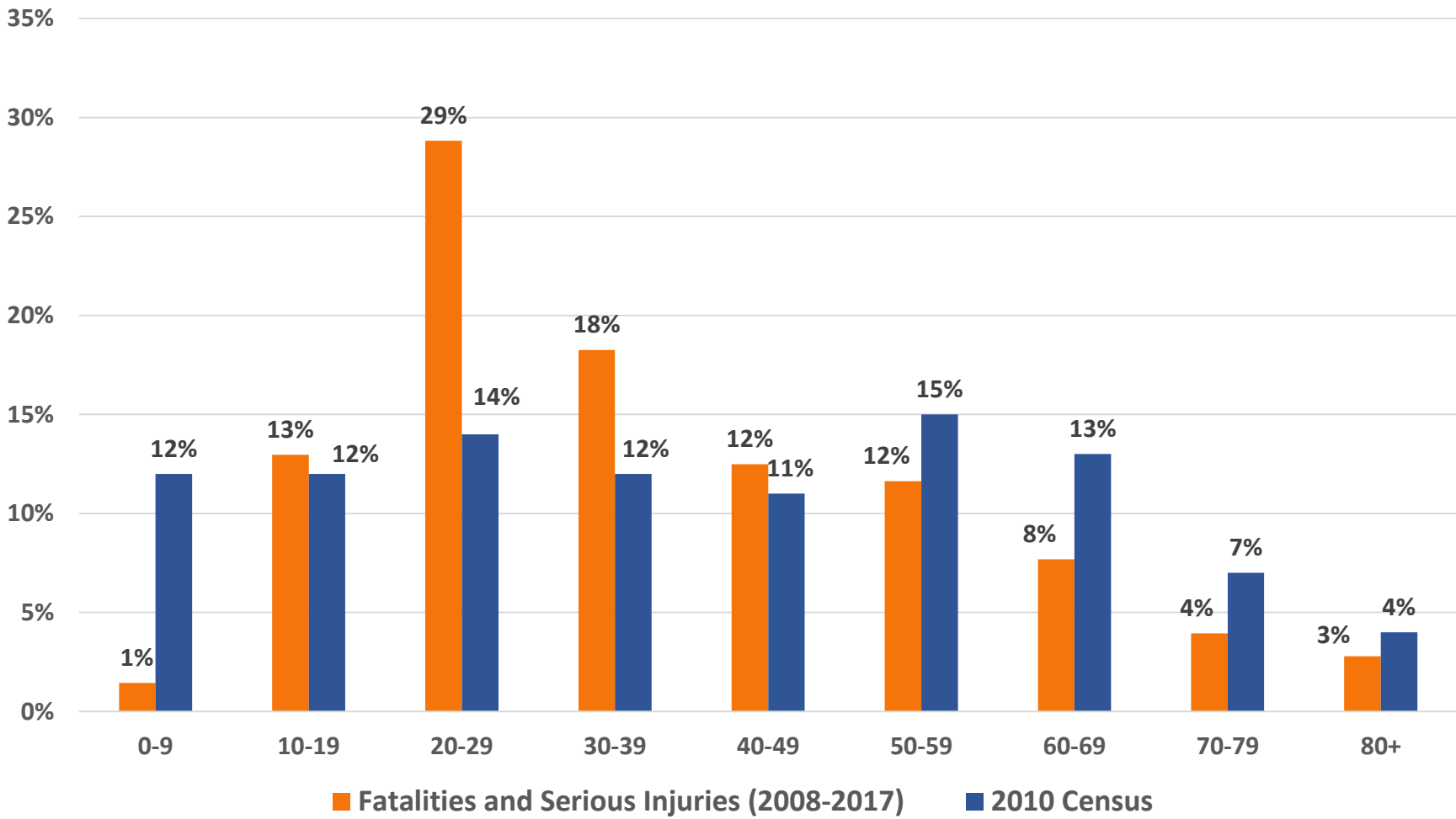


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Fatalities & Serious Injuries by Age

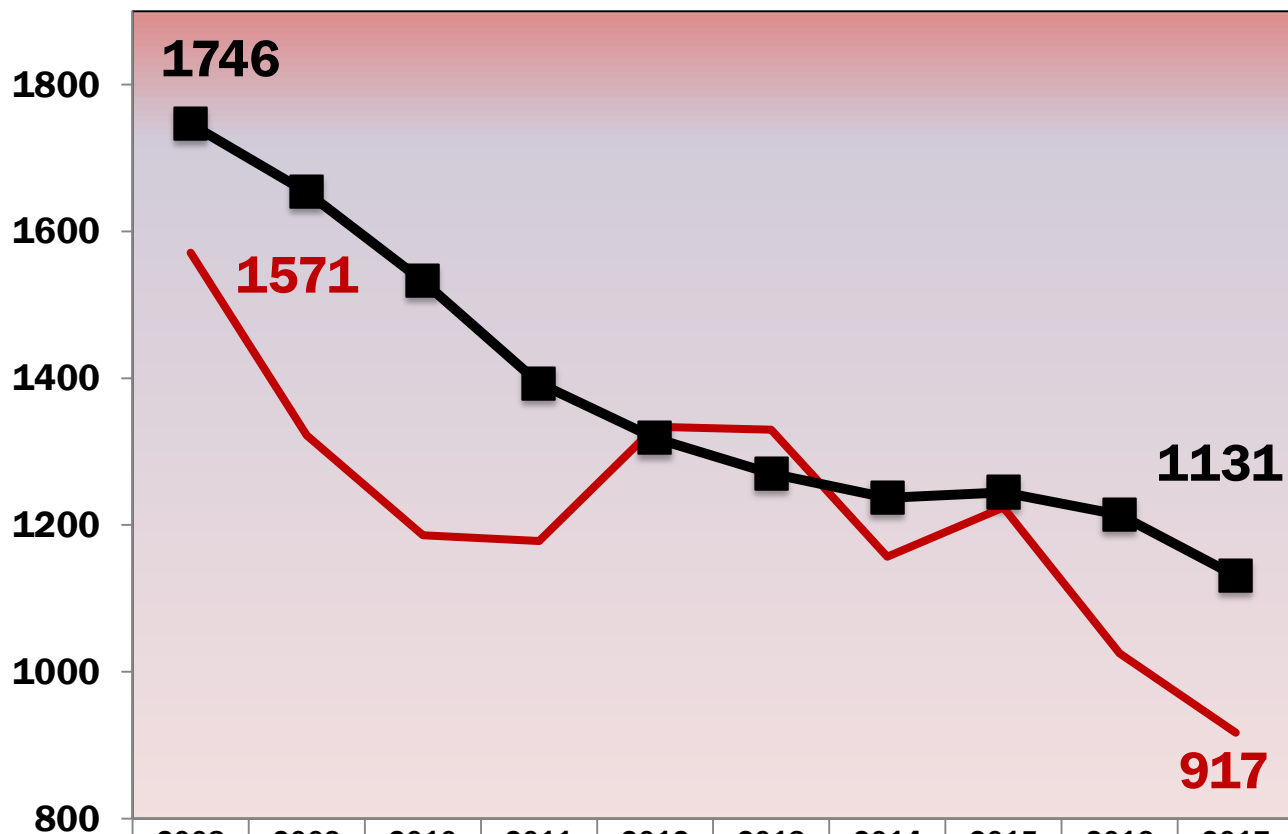
2008-2017



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Total Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Crash - Fatalities and Serious Injuries	1571	1322	1186	1178	1334	1330	1157	1224	1025	917
5 Year Average	1746	1654	1532	1393	1318	1270	1237	1245	1214	1131
Fatalities	230	222	192	211	205	229	192	224	190	186
Serious Injuries	1341	1100	994	967	1129	1101	965	1000	835	731

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3-Year Severe Injury Trend

-by Crash Factor

	2015	2016	2017
Fatalities	224	190	186
Serious Injuries	1,000	835	731
Severe Injuries	1,224	1,025	917
Roadway Departure Crash (58%)	736	583	516
Intersection Crash (20%)	255	206	162
Impaired Driver Involved (40%)	461	425	384
Unrestrained Occupant (34%)	413	362	305
Older Driver Involved (18%)	210	190	175
Young Driver Involved (17%)	222	177	147
Male Driver Involved (75%)	935	759	687
Female Driver Involved (40%)	454	416	389
Non-motorized Involved (7%)	64	77	65
Motorcyclist (14%)	170	137	122

3-Year Severe Injury Trend

-by Crash Factor (continued)

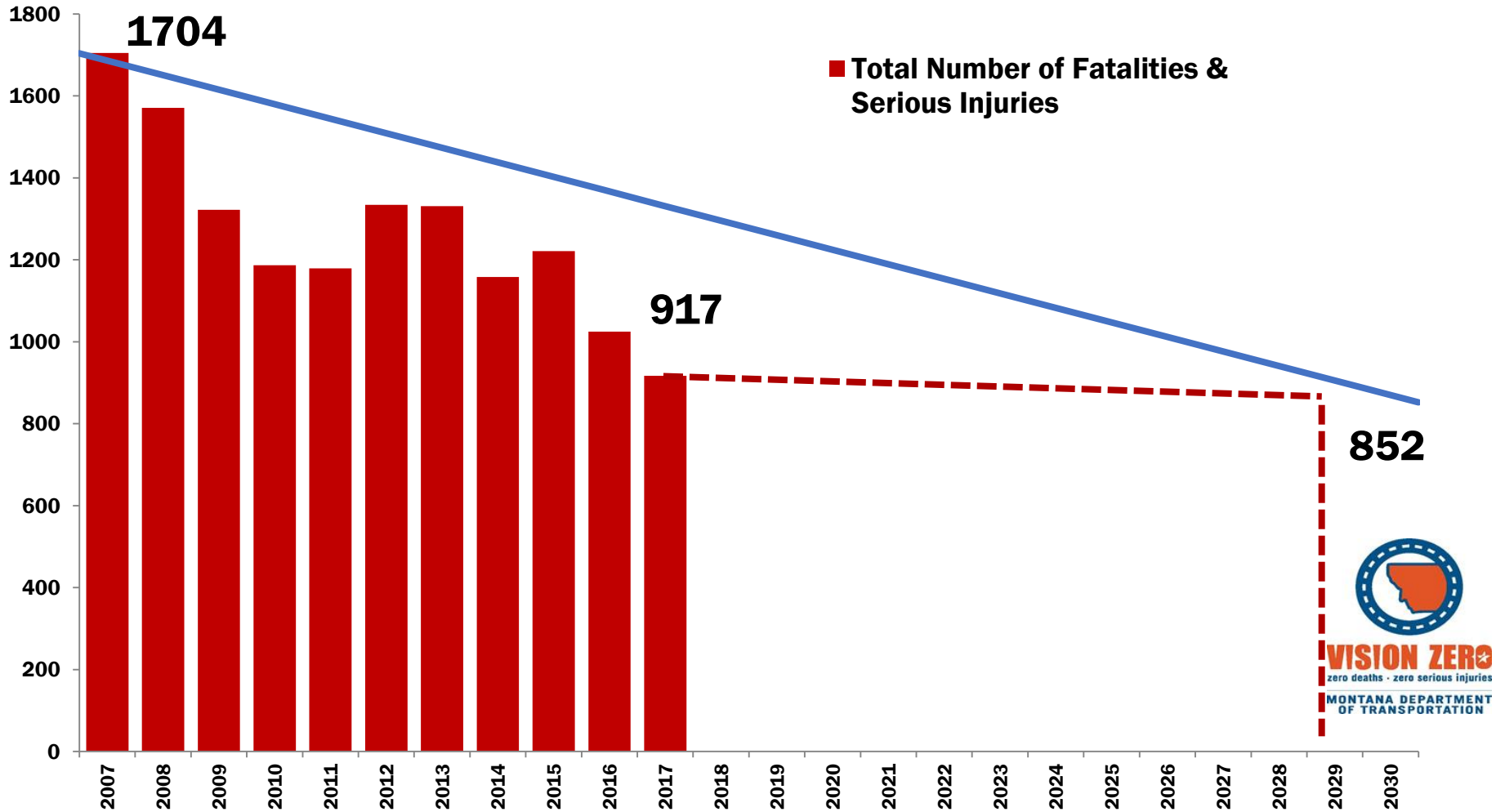
	2015	2016	2017
Fatalities	224	190	186
Serious Injuries	1,000	835	731
Severe Injuries	1,224	1,025	917
Rural Crash (79%)	978	825	706
June, July, August, and September (45%)	558	454	412
Friday, Saturday, Sunday (49%)	598	517	443
Nighttime (31%)	359	333	288
Shoulder Width <4 Feet (39%)	487	408	330
More Than 2 Travel Lanes (24%)	317	254	189
Speed as a Factor (21%)	278	196	204
Large Vehicle (7%)	91	74	48
Low Volume Roadway (AADT < 750) (38%)	437	355	399

Vision Zero

Zero fatalities and zero serious injuries on Montana's roads.



CHSP Interim Safety Goal

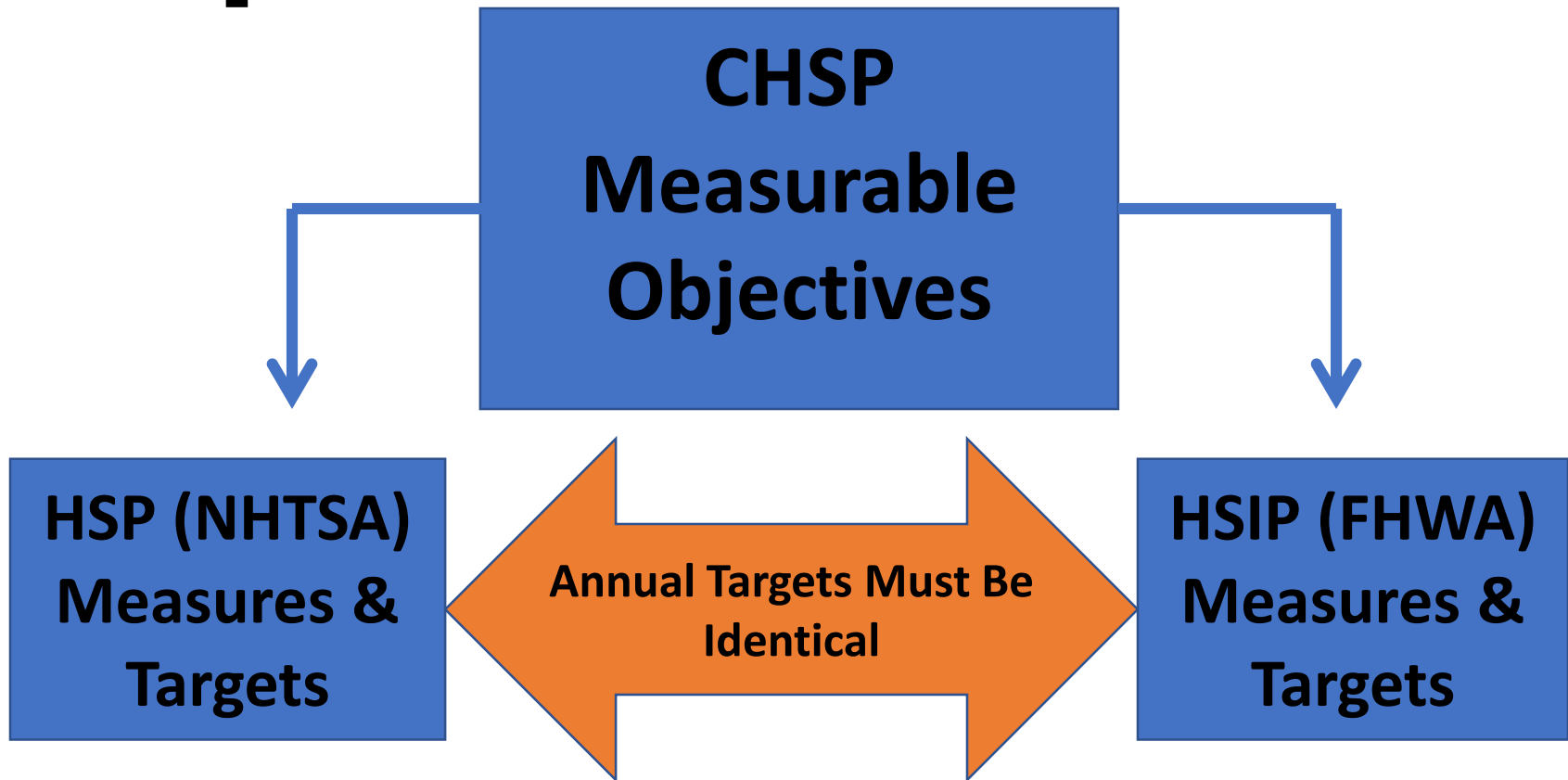


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Performance Measures & Safety Targets

FAST Act Safety Target Requirements



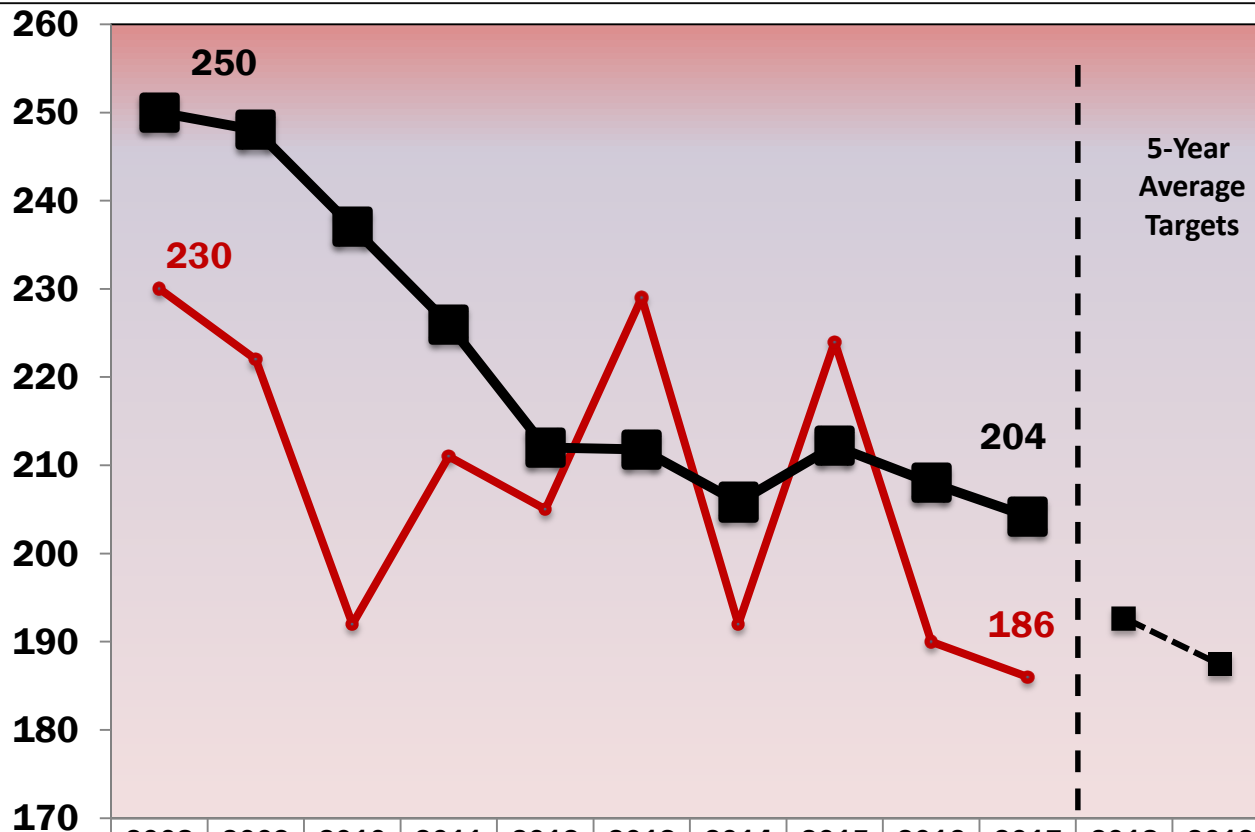
Performance Measures

Reduce:

- Number of Fatalities
- Fatality Rates
- Number of Suspected Serious Injuries
- Suspected Serious Injury Rates
- Number of Non-motorized Fatalities & Suspected Serious Injuries

CHSP Safety Targets

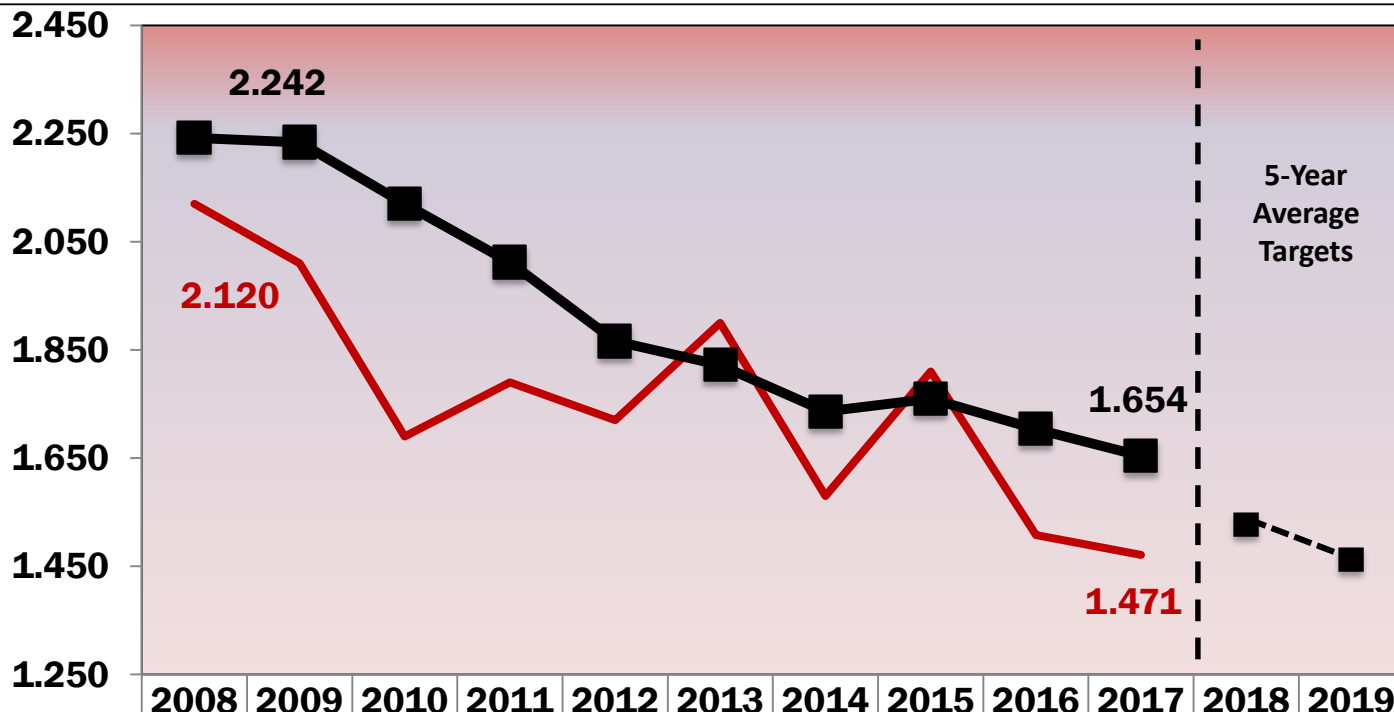
Reduction in the Number of Fatalities



All Crash - Fatality	230	222	192	211	205	229	192	224	190	186		
5 Year Average	250	248	237	226	212	212	206	212	208	204		
5-year Average 2018 Serious Injury Target											193	
5-Year Average 2019 Serious Injury Target												187

CHSP Safety Targets

Reduction in the Fatality Rate



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
— Fatality Rate (FARS)	2.120	2.010	1.690	1.790	1.720	1.900	1.580	1.810	1.508	1.471		
■ 5 Year Average	2.242	2.234	2.120	2.012	1.866	1.822	1.736	1.760	1.704	1.654		
■ 5-year Average 2018 Serious Injury Target											1.527	
■ 5-Year Average 2019 Serious Injury Target												1.462

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2015-2020

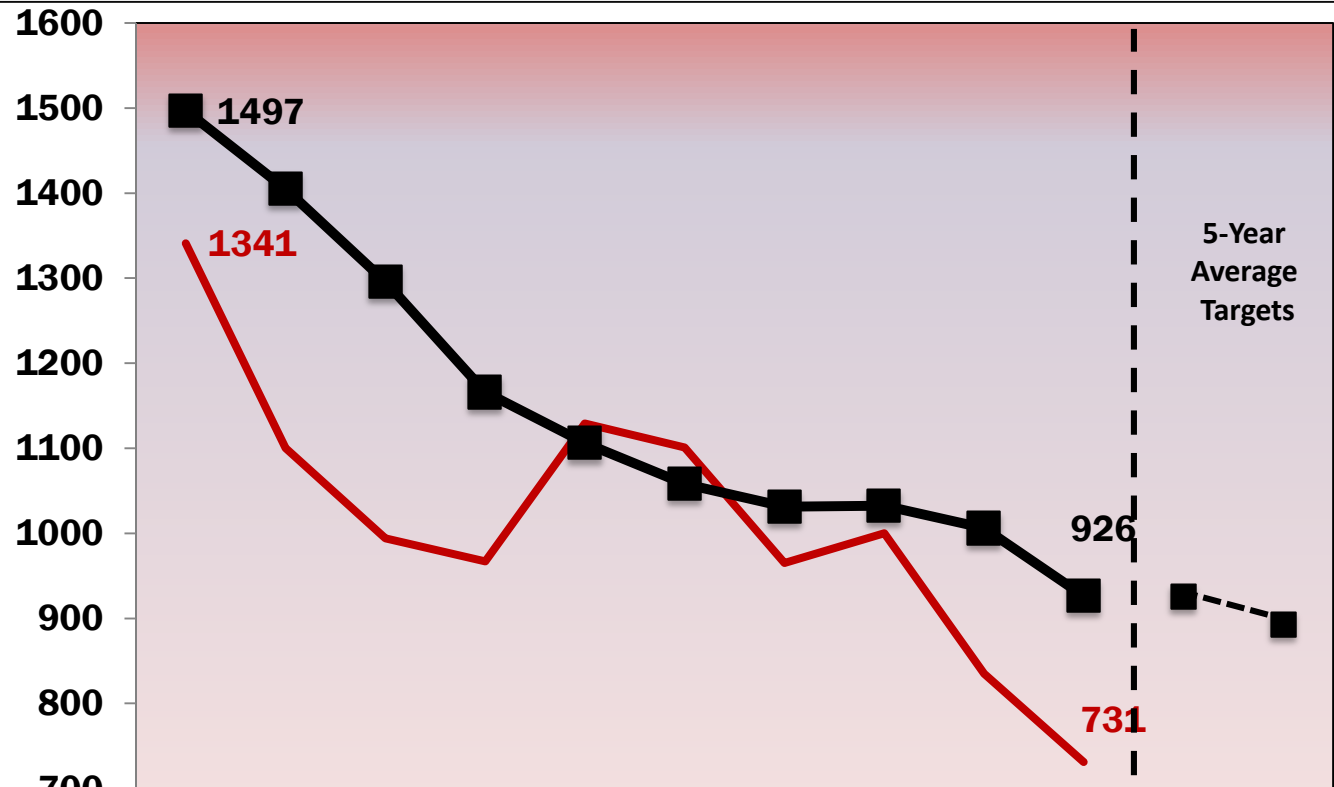
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Data retrieved 8/8/18

Rate is calculated using MDT-HPMS VMT value

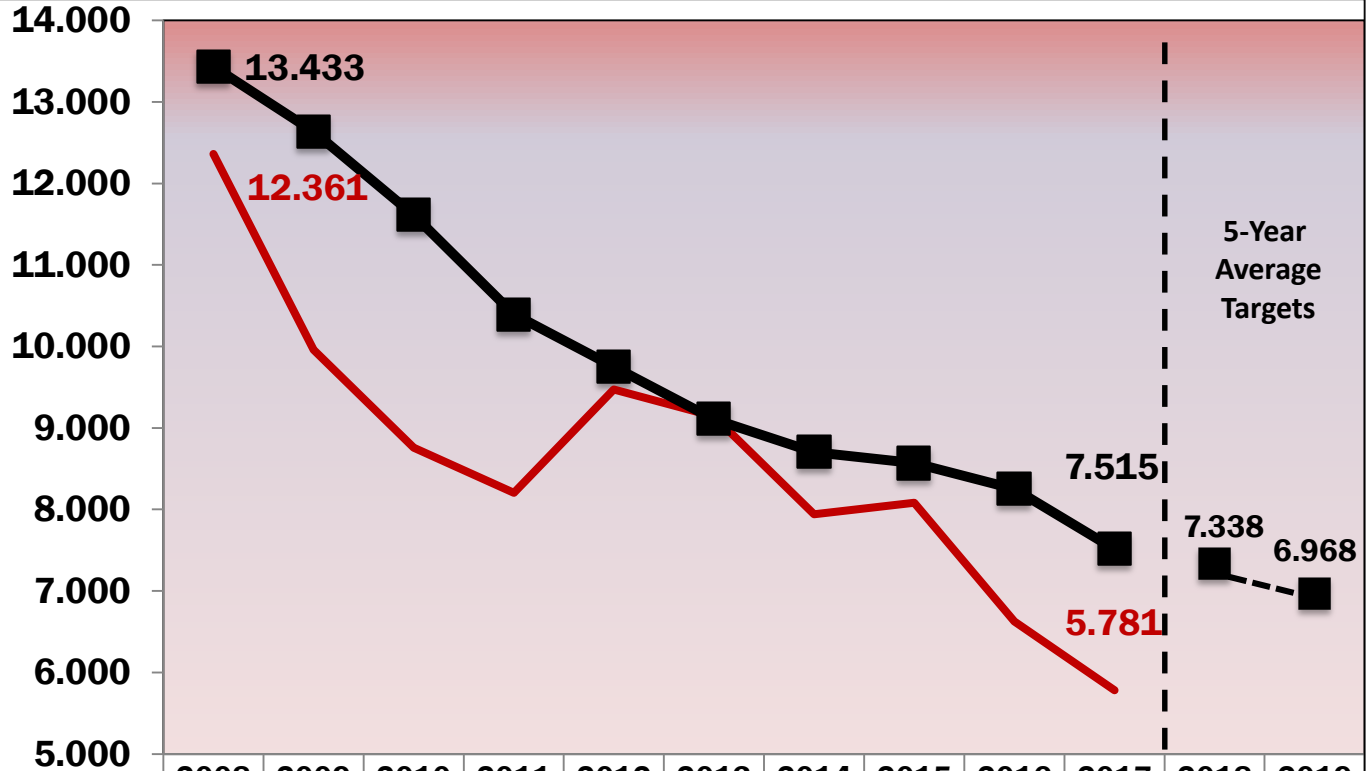
CHSP Safety Targets

Reduction in the Number of Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
All Crash - Serious Injury	1341	1100	994	967	1129	1101	965	1000	835	731		
5 year average	1497	1405	1296	1166	1106	1058	1031	1032	1006	926		
5-year Average 2018 Serious Injury Target											925	
5-Year Average 2019 Serious Injury Target												893

CHSP Safety Targets: Reduction in the Serious Injury Rate



— Serious Injury Rate	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
■ 5 Year Average	12.361	9.959	8.758	8.203	9.473	9.143	7.941	8.080	6.627	5.781		
■ 5-year Average 2018 Serious Injury Target											7.338	
■ 5-Year Average 2019 Serious Injury Target												6.968

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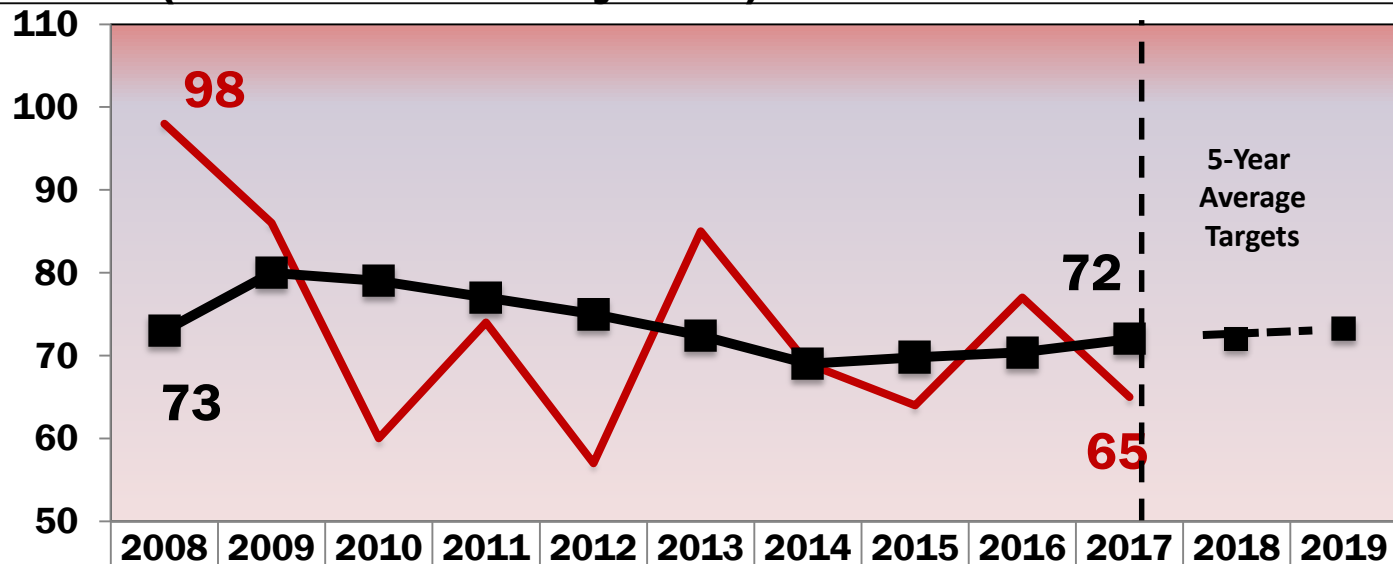
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Data retrieved 8/8/18

Rate is calculated using MDT-HPMS VMT value

CHSP Safety Targets

Reduction of Non-Motorized Fatalities and Serious Injuries (Pedestrians & Bicyclists)



— Non-Motorist Fatalities and Serious Injuries	98	86	60	74	57	85	69	64	77	65		
■ 5 Year Average	73	80	79	77	75	72	69	70	70	72		
Fatalities	14	16	10	16	9	24	12	15	14	15		
Serious Injuries	84	70	50	58	48	61	57	49	63	50		
■ 5-year Average 2018 Non-Motorized F & SI Target											72	
■ 5-Year Average 2019 Non-Motorized F & SI Target												73

2019 Safety Performance Targets

Performance Measures	2019 5-Year Average
Number of Fatalities	187.4
Fatality Rate*	1.462
Number of Serious Injuries	892.8
Serious Injury Rate*	6.968
Number of Non-Motorized Fatalities & Serious Injuries	73.2

*Per 100 million Average Annual Vehicle Miles Traveled

https://www.mdt.mt.gov/visionzero/docs/chsp/PerfomanceMeasuresTargets_2019.pdf

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2015-2020

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Next Steps

- Annual Report
- Continued Strategy Implementation
- Impaired Driving Assessment-Dec. 3-5, 2018
- 2019 Legislative Session-Jan.1-May 1, 2019
- Capitol Safety Rotunda Day-Jan. 29, 2019
- Executive Leadership Team-May 2019
- Advisory Committee Target Meeting-May 2019
- 2019 Annual Safety Meeting- October 9-10, 2019
- 2020 CHSP Update

For information on becoming involved with Emphasis Areas Teams and the CHSP, please contact:

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plangvedavis@mt.gov**

**Comprehensive Highway Safety Plan
<http://www.mdt.mt.gov/visionzero/plans/chsp.shtml>**