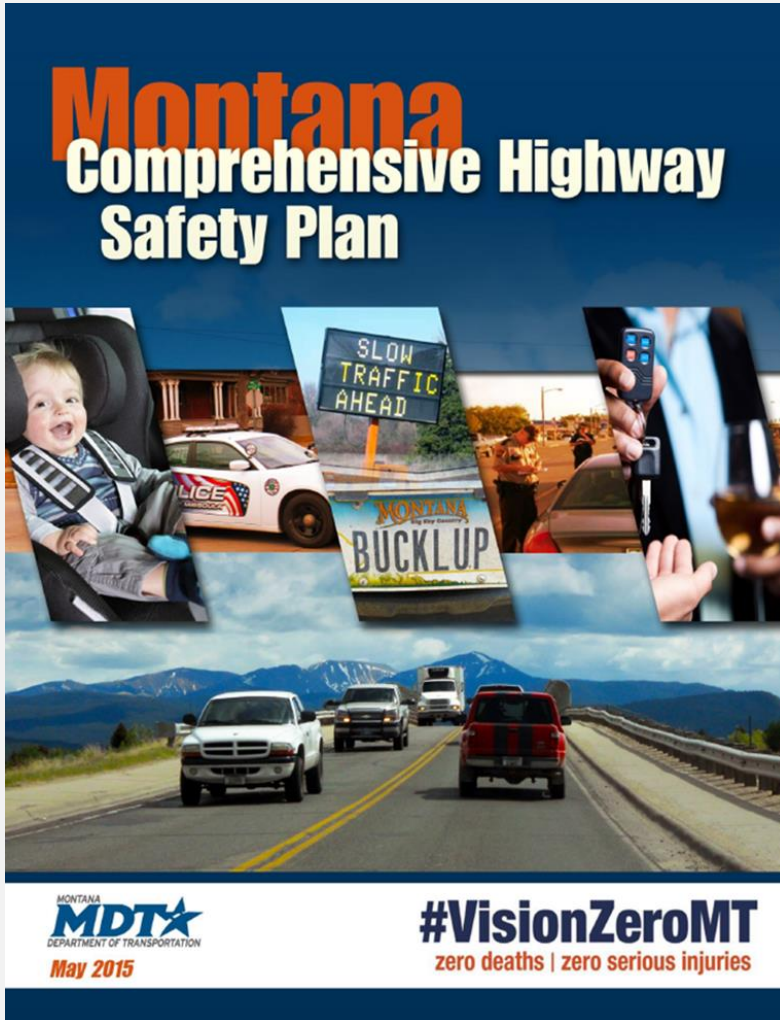


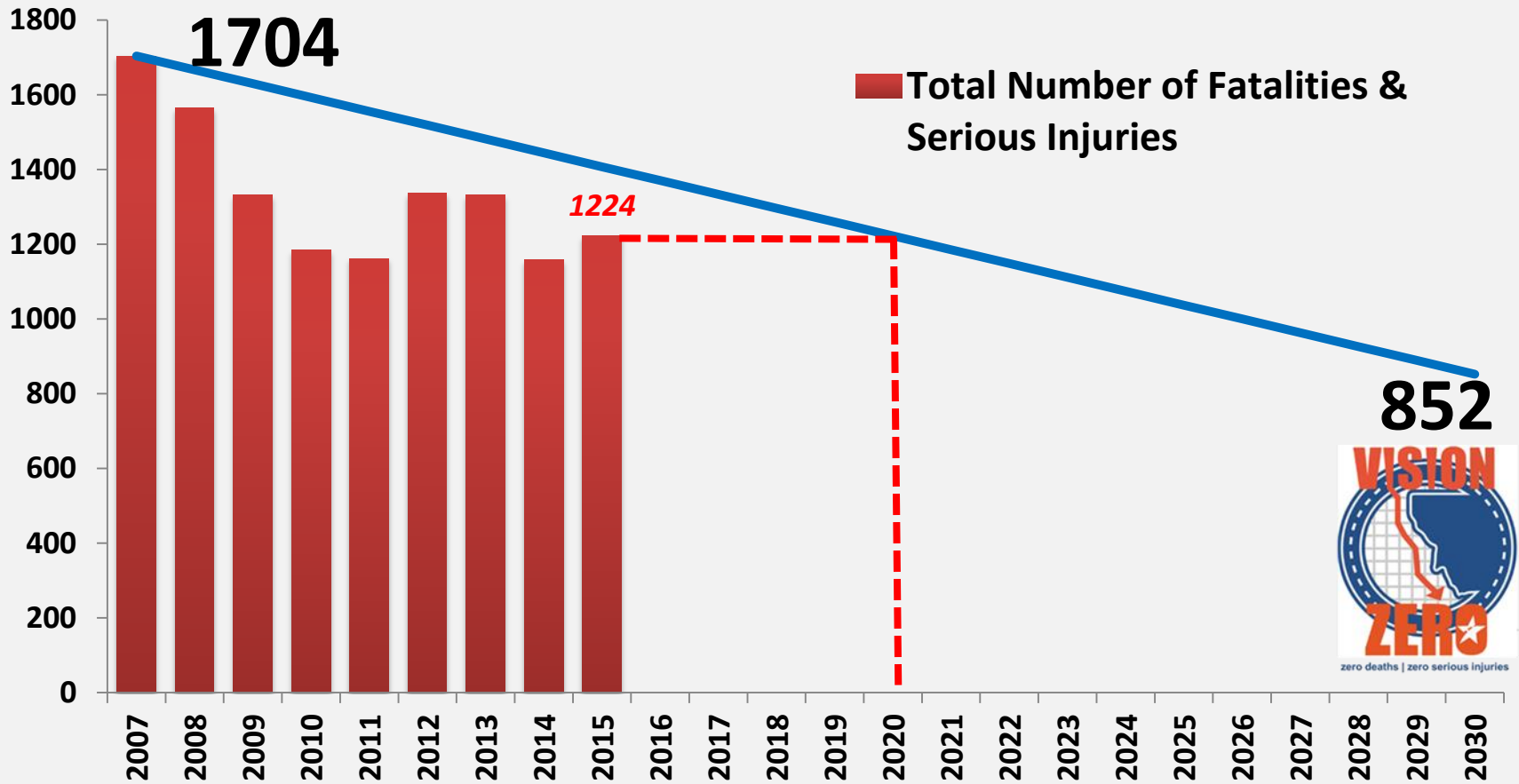
# Montana Crash Data Summary



2016 Annual Transportation  
Safety Planning Meeting  
Radisson Colonial Hotel  
Helena, MT  
October 13, 2016

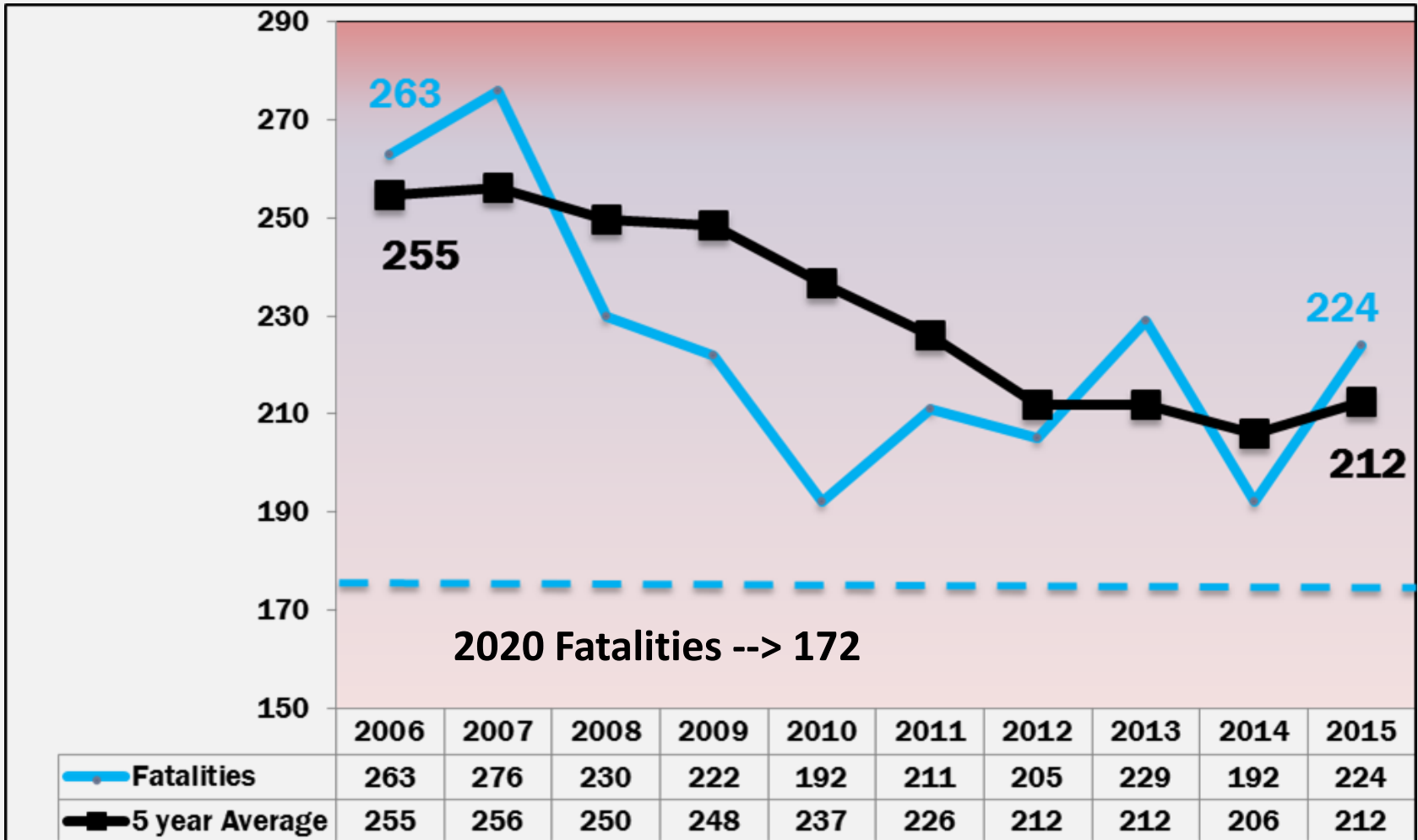
Kraig McLeod, Multimodal Bureau,  
Rail, Transit and Planning Division  
Montana Department of  
Transportation

# CHSP Interim Safety Goal



# CHSP Safety Targets:

## Reduction in the Number of Fatalities



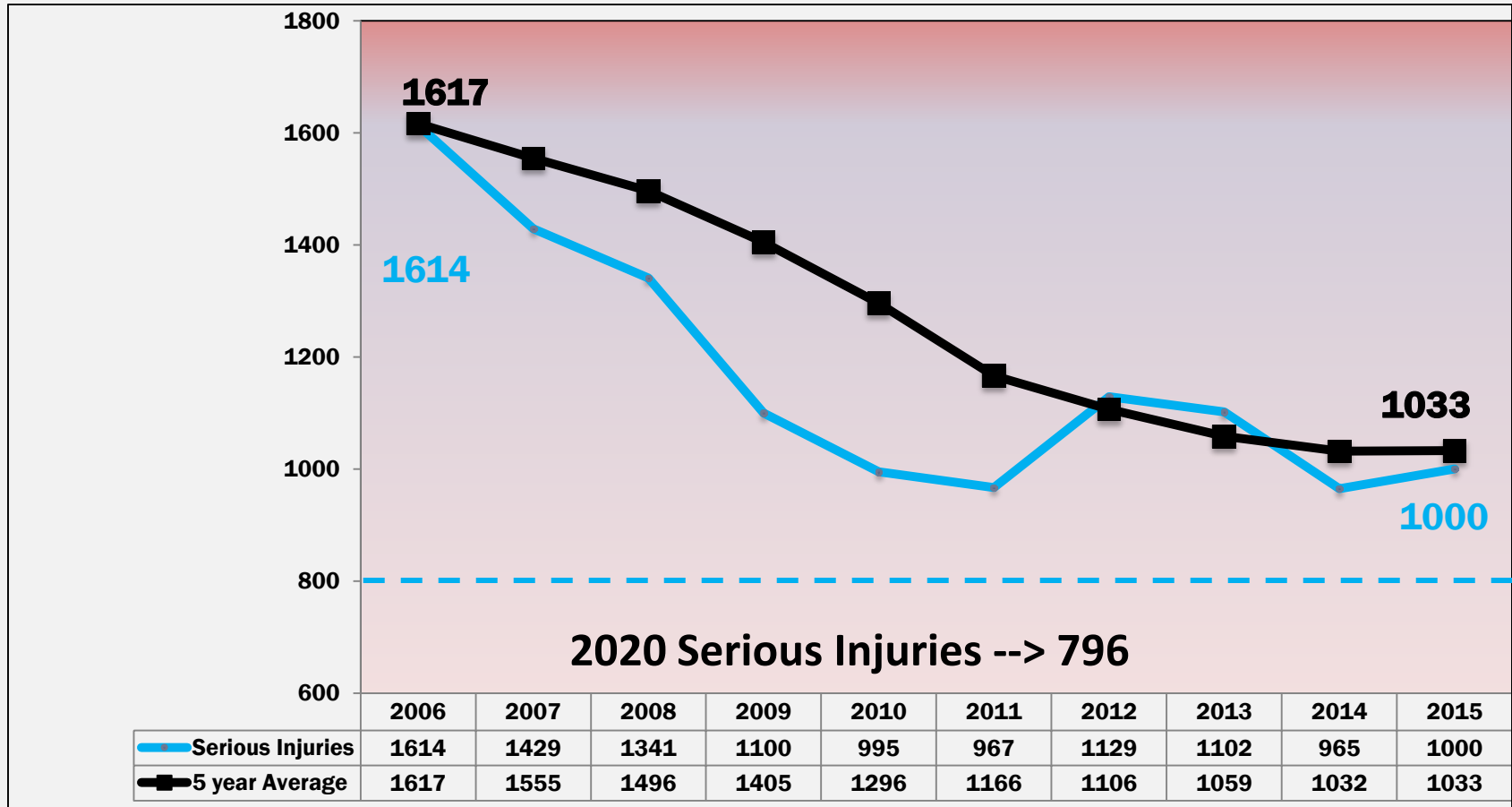
Data as of 9/13/2016

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# CHSP Safety Targets:

## Reduction in the Number of Serious Injuries

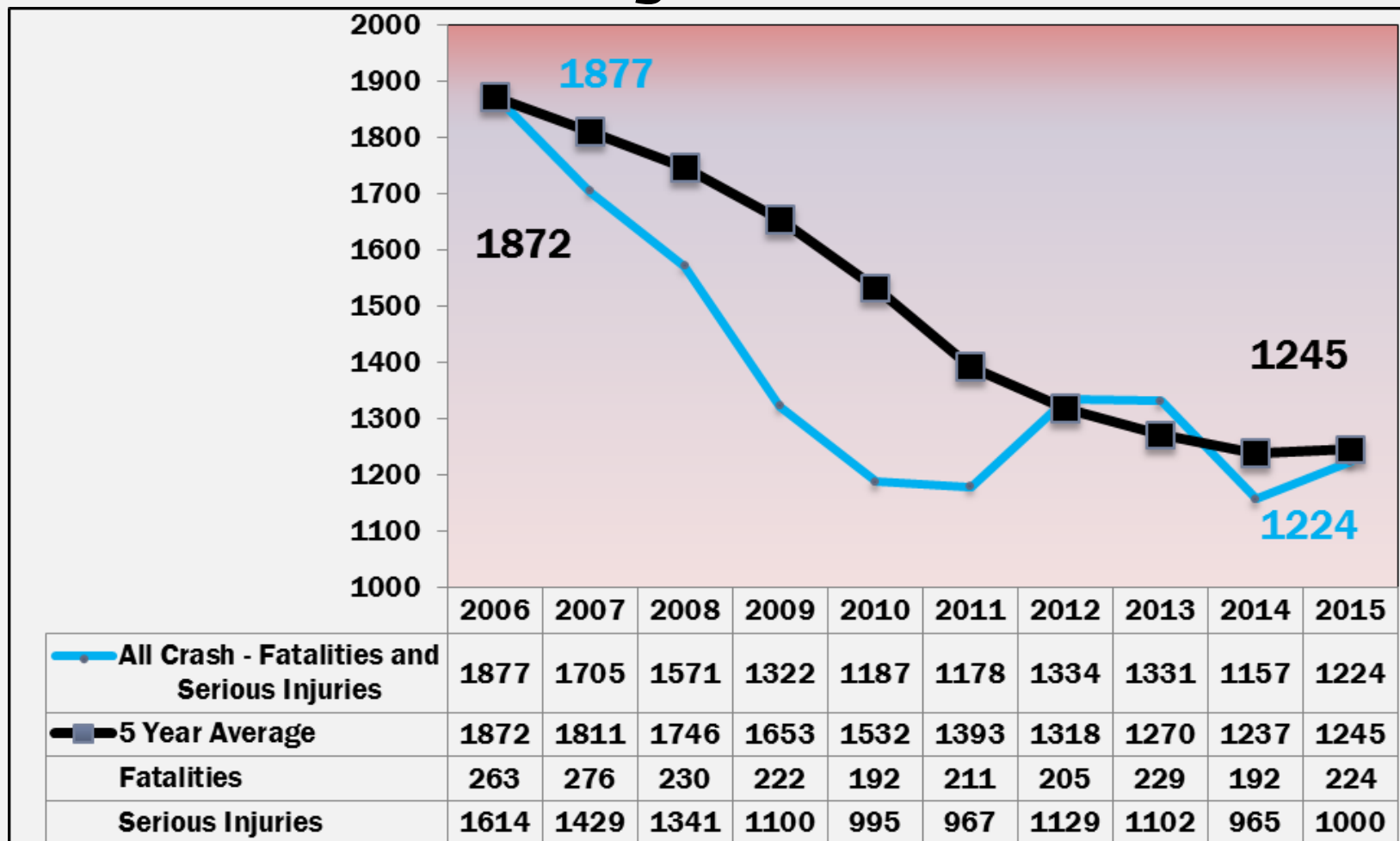


Data as of 9/13/2016

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# Total Fatalities & Serious Injuries



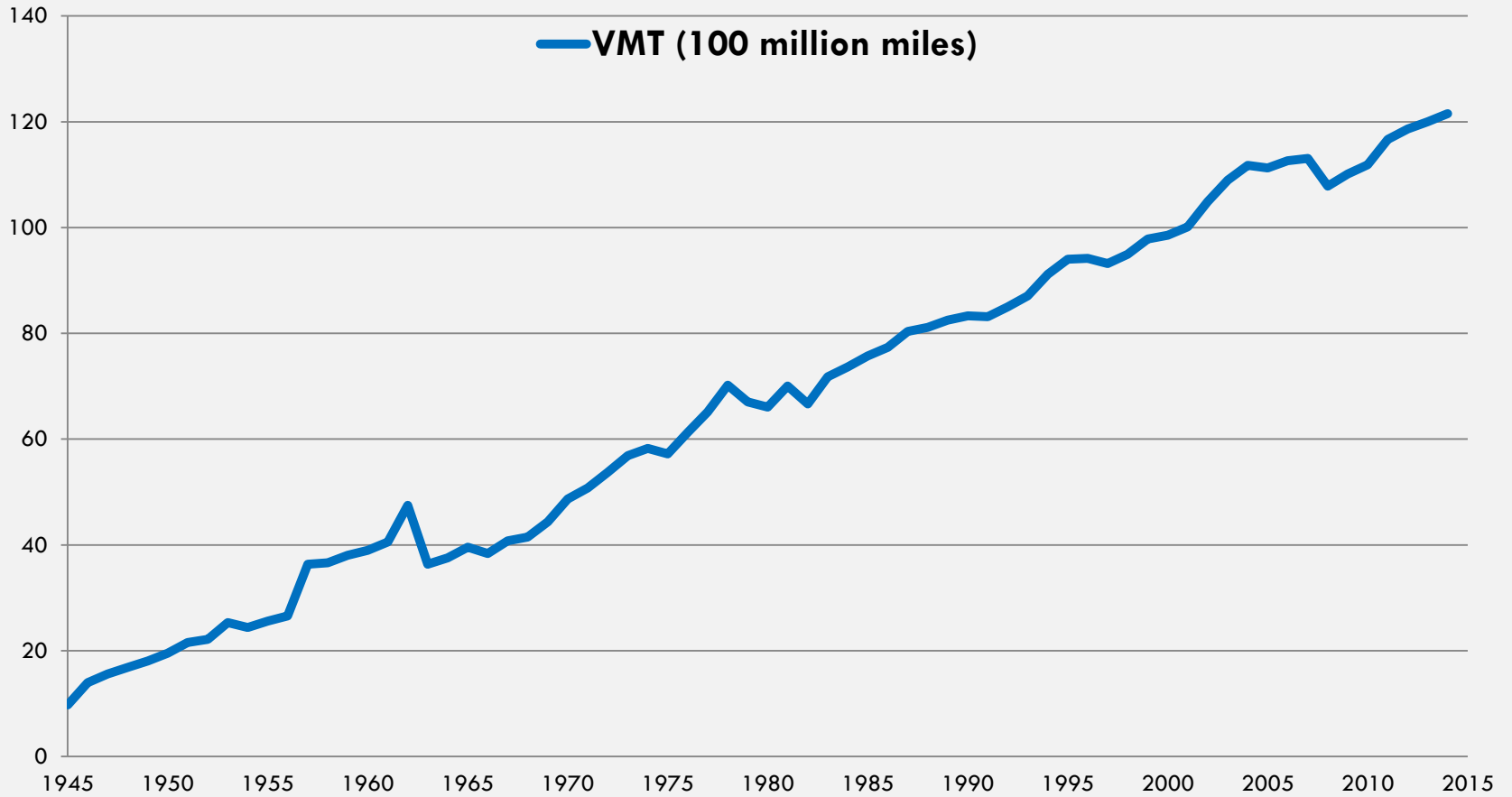
Data as of 9/13/2016

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# VMT Trends

## 1945 - 2015

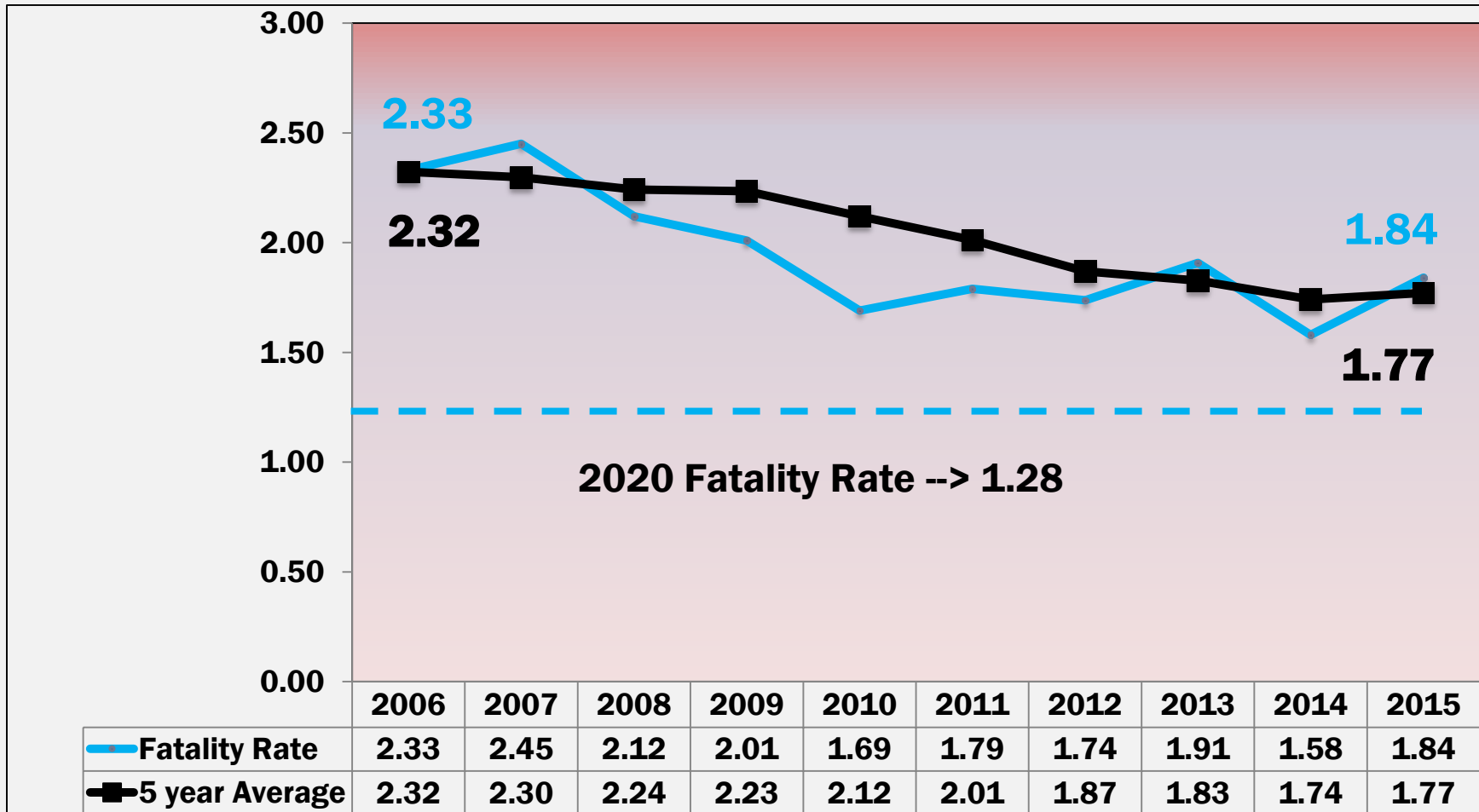


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# CHSP Safety Targets:

## Reduction in the Fatality Rate



Data as of 9/13/2016

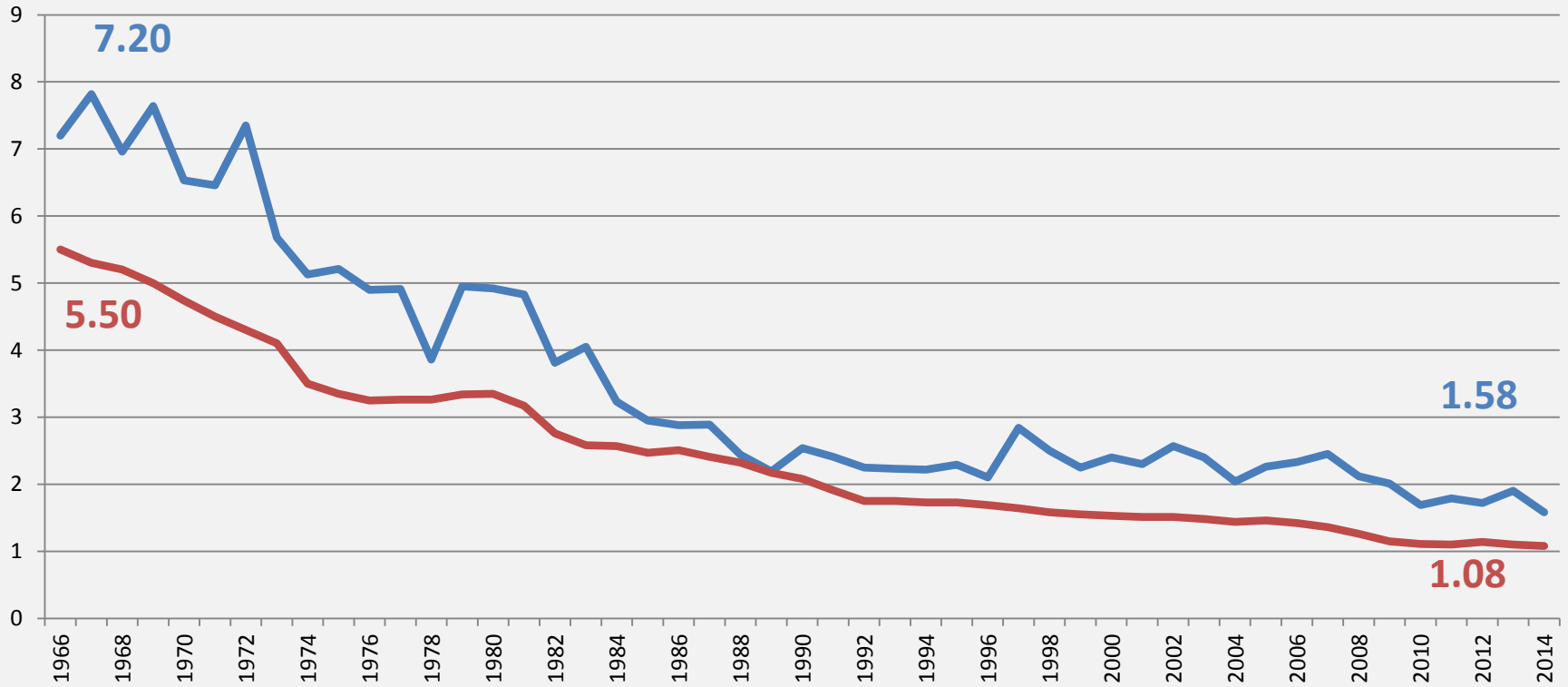
Montana Comprehensive Highway Safety Plan  
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# Fatality Rates - MT vs. US

—Montana

—USA

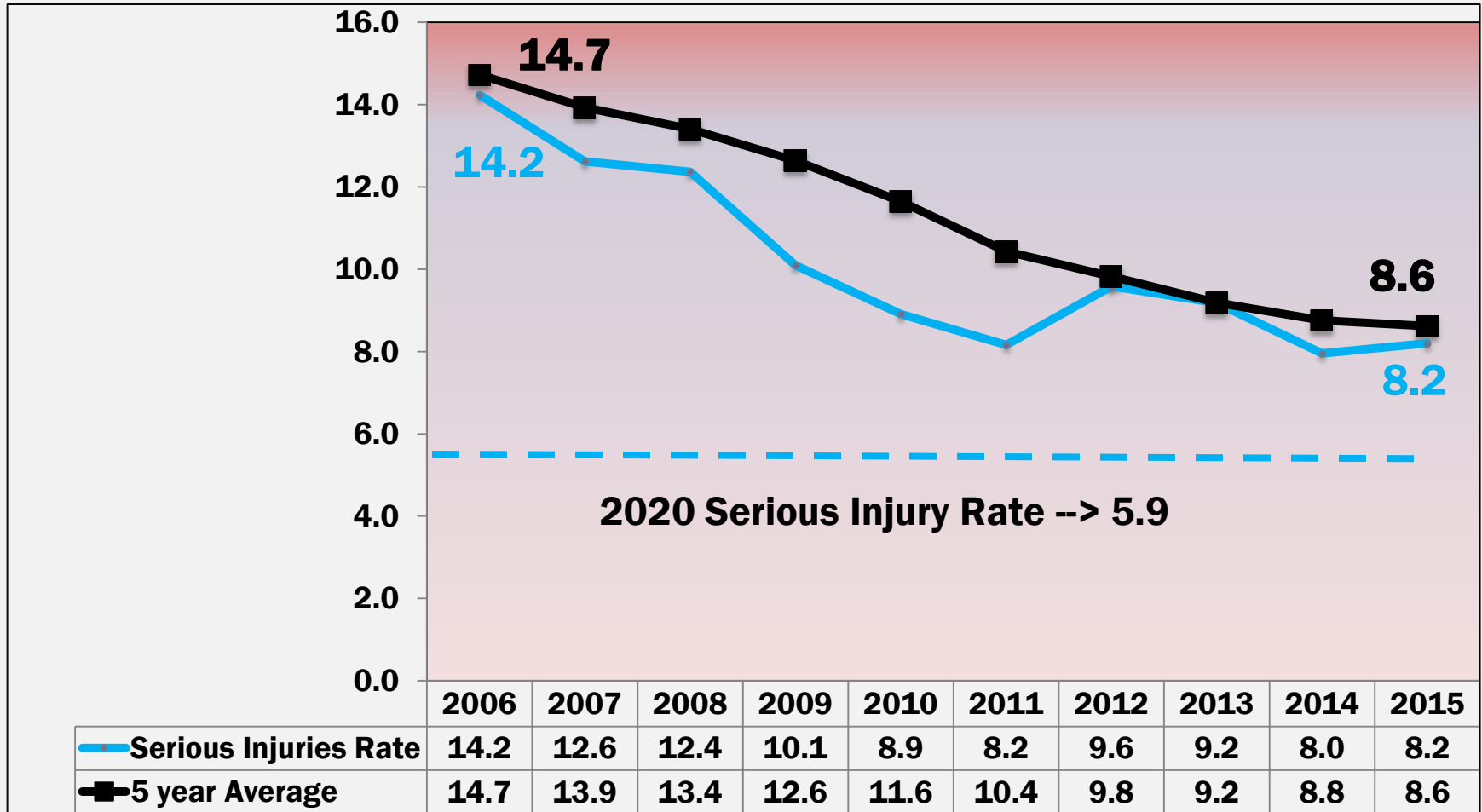


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# CHSP Safety Targets: Reduction in Serious Injury Rate



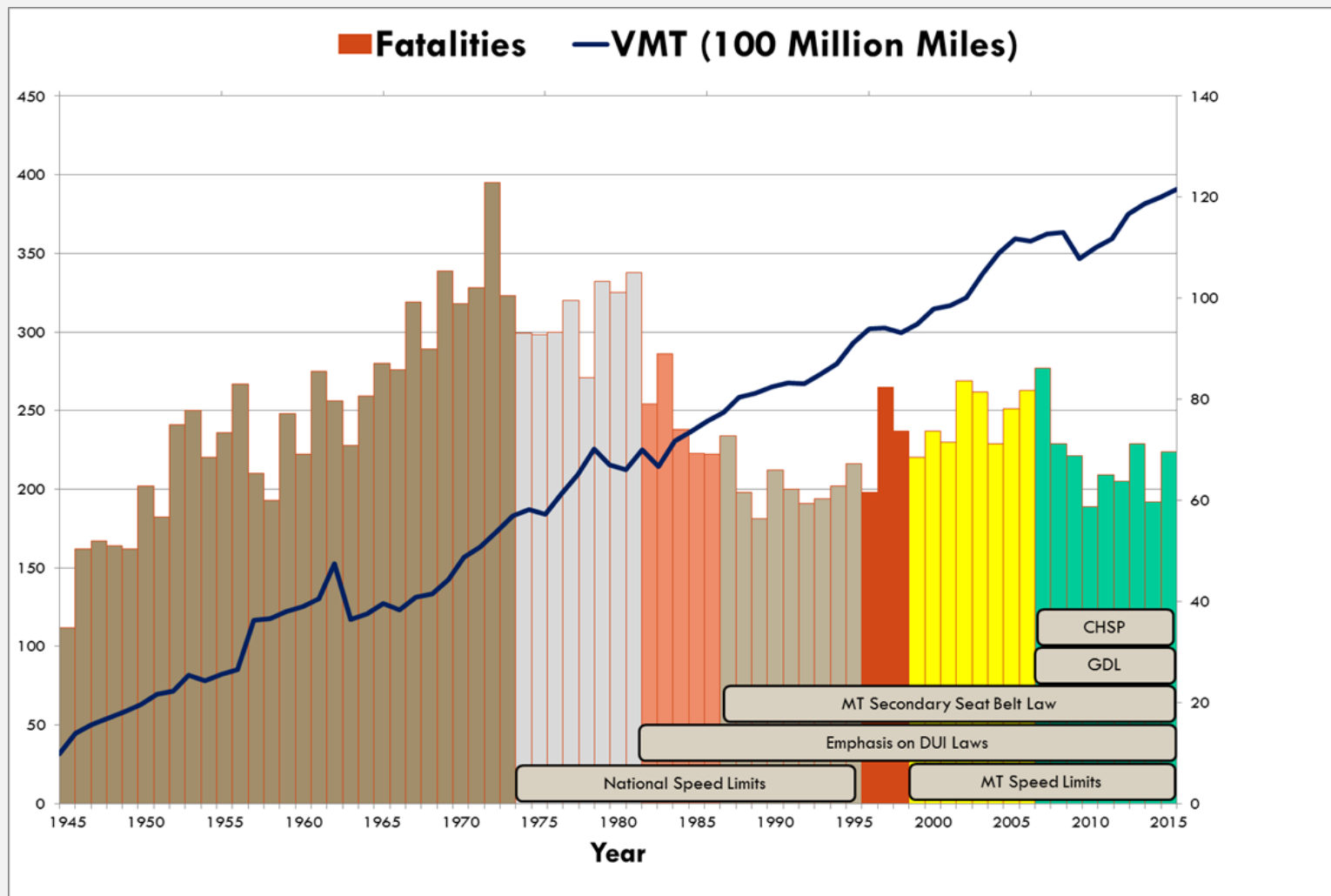
Data as of 9/13/2016

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# Fatalities & Legislative Actions

## 1945 - 2015



# 3-year Severe Injury Trend - by Crash Factor

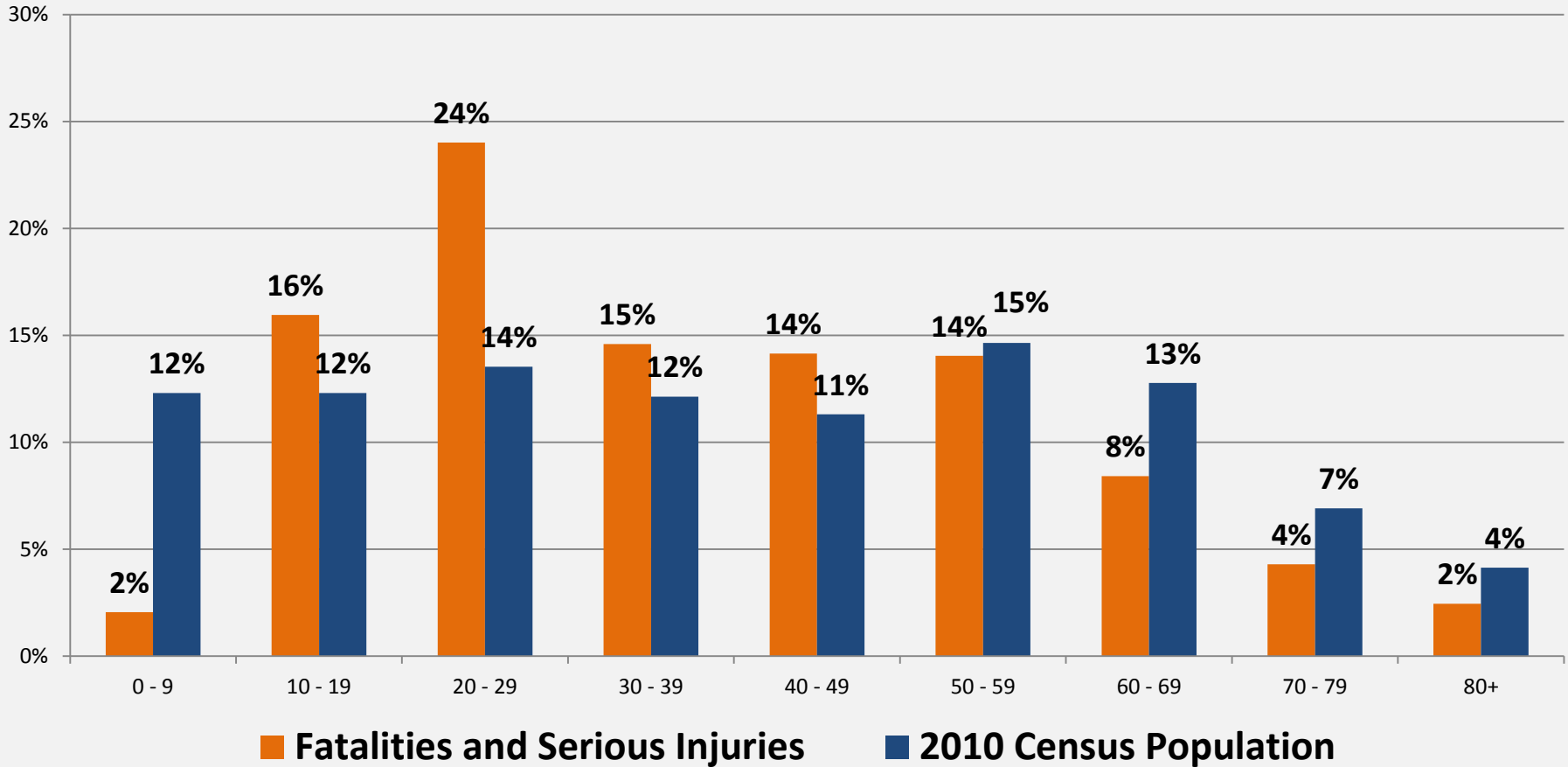
	2013	2014	2015
Fatalities	229	192	224
Serious Injuries	1,102	965	1,000
<b>Severe Injuries</b>	<b>1,331</b>	<b>1,159</b>	<b>1,224</b>
Roadway Departure Crash (~60%)	754	667	735
Intersection Crash (~21%)	277	188	254
Impaired Driver Involved (~38%)	469	411	461
Unrestrained Occupant (~34%)	446	378	413
Young Driver Involved	247	190	222
Older Driver Involved	201	191	210
Male Driver Involved (~76%)	1,026	855	934
Female Driver Involved	528	462	454
Non-motorized Involved	88	70	64
Motorcyclist	192	167	170
Large Vehicle	84	73	91

# 3-year Severe Injury Trend

## - by Crash Factor (continued)

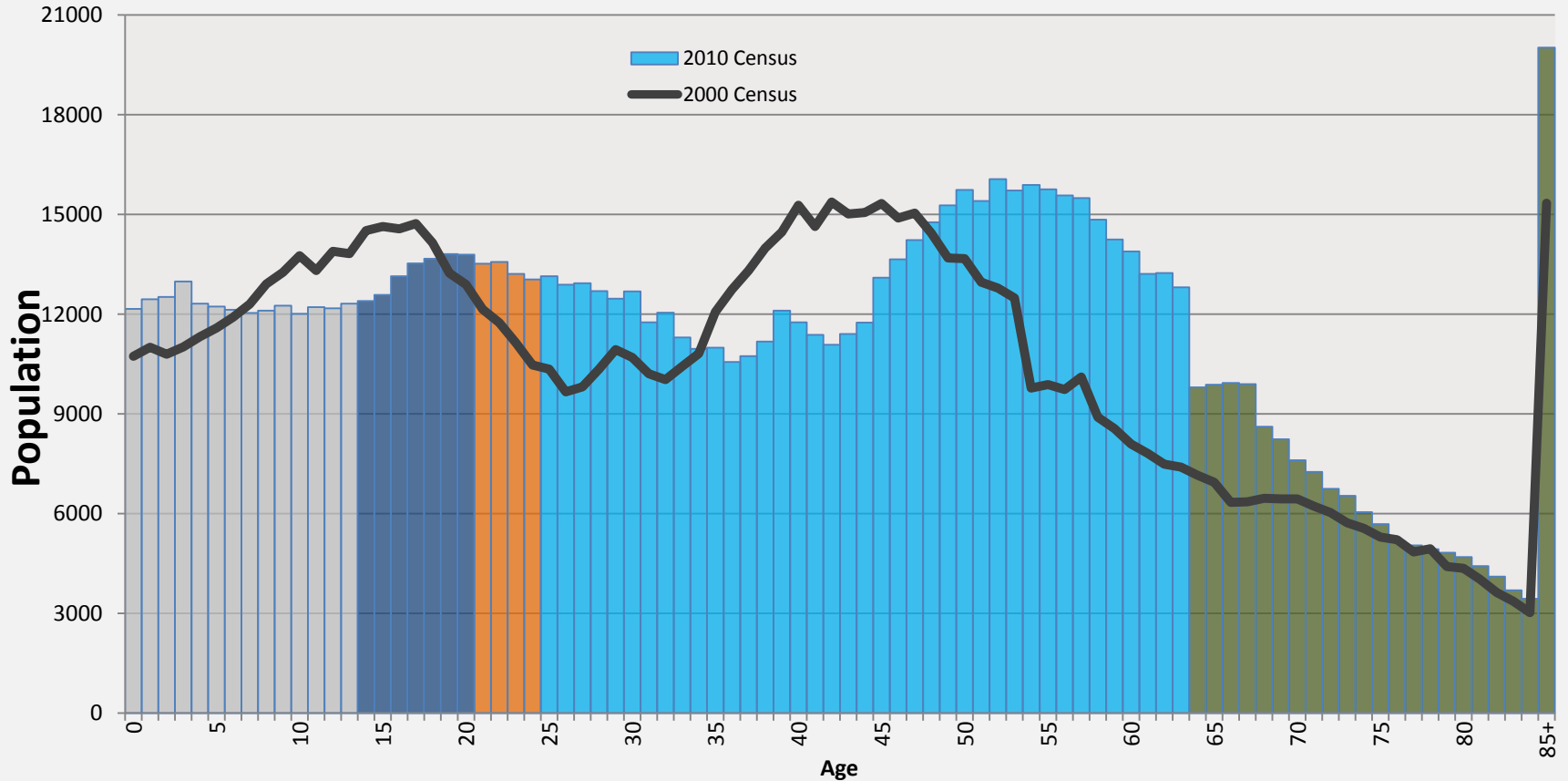
	2013	2014	2015
Fatalities	229	192	224
Serious Injuries	1,102	965	1,000
<b>Severe Injuries</b>	<b>1,331</b>	<b>1,159</b>	<b>1,224</b>
Rural Crash (~80%)	1,115	948	978
Urban Crash	216	211	246
June, July, and August (~37%)	505	410	452
Friday, Saturday, and Sunday (~49%)	667	580	598
Nighttime (~29%)	455	347	359
Shoulder Width less than 4 feet	540	475	475
More than 2 lane roadway	389	216	241
Speed as a Factor	256	244	277

# Fatalities & Serious Injuries by Age, 2006-2015



# MT Population by Age

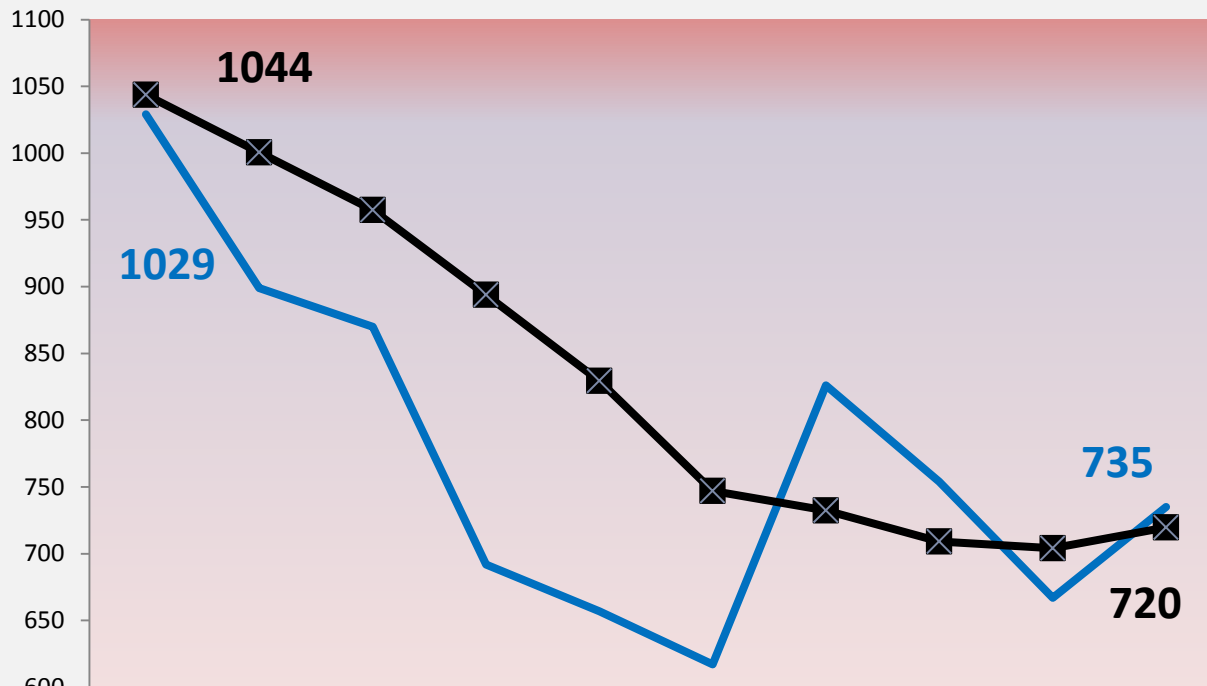
2000 & 2010 Census



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# Roadway Departure Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Roadway Departure Crash - Fatalities and Serious Injuries	1029	899	870	692	657	617	826	754	667	735
— 5 Year Average ( F + SI )	1044	1001	957	894	829	747	732	709	704	720
Fatalities	167	194	143	146	121	142	158	151	126	155
Serious Injuries	862	705	727	546	536	475	668	603	541	580

Data as of 9/13/2016

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# 3-year Roadway Departure Severe Injury Trend – by Crash Factor

	2013	2014	2015
Fatalities	151	126	155
Serious Injuries	603	541	580
<b>Severe Injuries</b>	<b>754</b>	<b>667</b>	<b>735</b>
Impaired Driver Involved (~47%)	325	293	347
Unrestrained Occupant (~45%)	316	270	331
Young Driver Involved	119	113	132
Older Driver Involved	93	87	91
Male Driver Involved (~73%)	551	474	534
Female Driver Involved	246	232	226
Motorcyclist	98	77	80
Large Vehicle	32	35	50

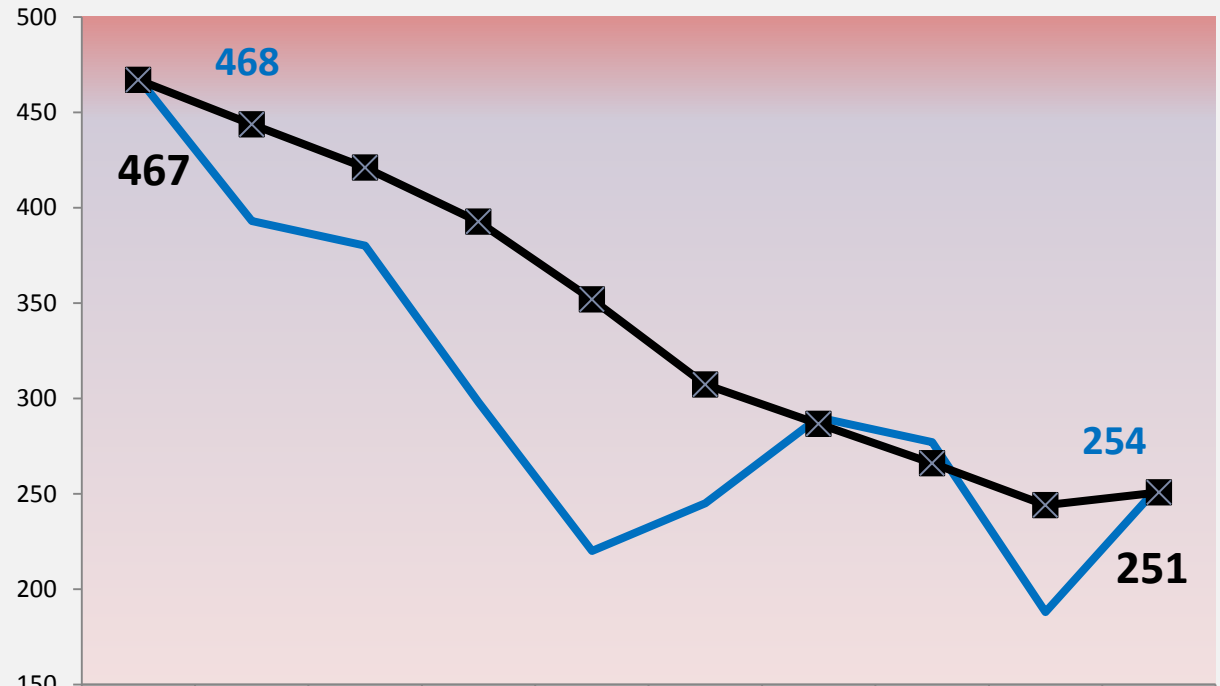


# 3-year Roadway Departure Severe Injury Trend – by Crash Factor

(continued)

	2013	2014	2015
<b>Fatalities</b>	<b>151</b>	<b>126</b>	<b>155</b>
<b>Serious Injuries</b>	<b>603</b>	<b>541</b>	<b>580</b>
<b>Severe Injuries</b>	<b>754</b>	<b>667</b>	<b>735</b>
<b>Rural Crash (~92%)</b>	<b>720</b>	<b>612</b>	<b>678</b>
<b>Urban Crash</b>	<b>34</b>	<b>55</b>	<b>57</b>
<b>June, July, and August (~38%)</b>	<b>293</b>	<b>233</b>	<b>280</b>
<b>Friday, Saturday, and Sunday (~52%)</b>	<b>399</b>	<b>354</b>	<b>385</b>
<b>Nighttime (~33%)</b>	<b>279</b>	<b>221</b>	<b>240</b>
<b>Shoulder Width less than 4 feet (~45%)</b>	<b>317</b>	<b>314</b>	<b>334</b>
<b>More than 2 lane roadway</b>	<b>216</b>	<b>99</b>	<b>114</b>
<b>Speed as a Factor</b>	<b>174</b>	<b>172</b>	<b>202</b>

# Intersection Related Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Intersection Crash - Fatalities and Serious Injuries	468	393	380	298	220	245	290	277	188	254
5 Year Average ( F + SI )	467	444	421	393	352	307	287	266	244	251
Fatalities	40	37	37	32	30	30	17	27	20	30
Serious Injuries	428	356	343	266	190	215	273	250	168	224

Data as of 9/13/2016

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# 3-year Intersection

## Severe Injury Trend – by Crash Factor

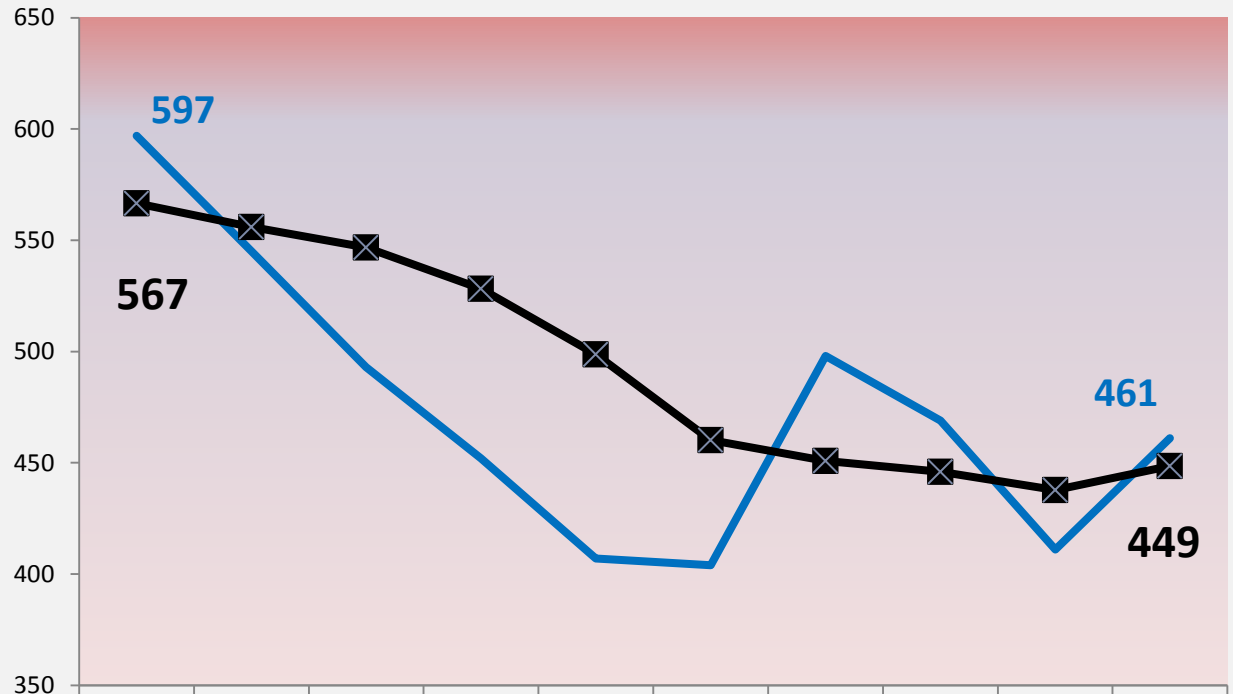
	2013	2014	2015
Fatalities	27	20	30
Serious Injuries	250	168	224
<b>Severe Injuries</b>	<b>277</b>	<b>188</b>	<b>254</b>
Impaired Driver Involved (~26%)	61	32	65
Unrestrained Occupant (~18%)	74	43	46
Young Driver Involved (~22%)	72	35	55
Older Driver Involved (~27%)	64	37	68
Male Driver Involved (~82%)	239	146	209
Female Driver Involved	151	103	144
Non-motorized Involved (~11%)	30	27	28
Motorcyclist (~13%)	41	30	32
Large Vehicle	15	8	10

# 3-year Intersection Severe Injury Trend – by Crash Factor

(continued)

	2013	2014	2015
Fatalities	27	20	30
Serious Injuries	250	168	224
<b>Severe Injuries</b>	<b>277</b>	<b>188</b>	<b>254</b>
Rural Crash (~50%)	154	103	126
Urban Crash (~50%)	123	85	128
June, July, and August	105	57	91
Friday, Saturday, and Sunday (~37%)	122	74	94
Nighttime	62	41	60
Shoulder Width less than 4 feet	109	62	80
More than 2 lane roadway	81	47	64
Speed as a Factor	37	23	27

# Impaired Driver Involved Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Impaired Driver Involved - Fatalities and Serious Injuries	597	545	493	452	407	404	498	469	411	461
— 5 Year Average ( F + SI )	567	556	547	528	499	460	451	446	438	449
Fatalities	112	125	95	133	107	114	127	136	117	129
Serious Injuries	485	420	398	319	300	290	371	333	294	332

Data as of 9/13/2016

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# 3-year Impaired Driver Involved Severe Injury Trend – by Crash Factor

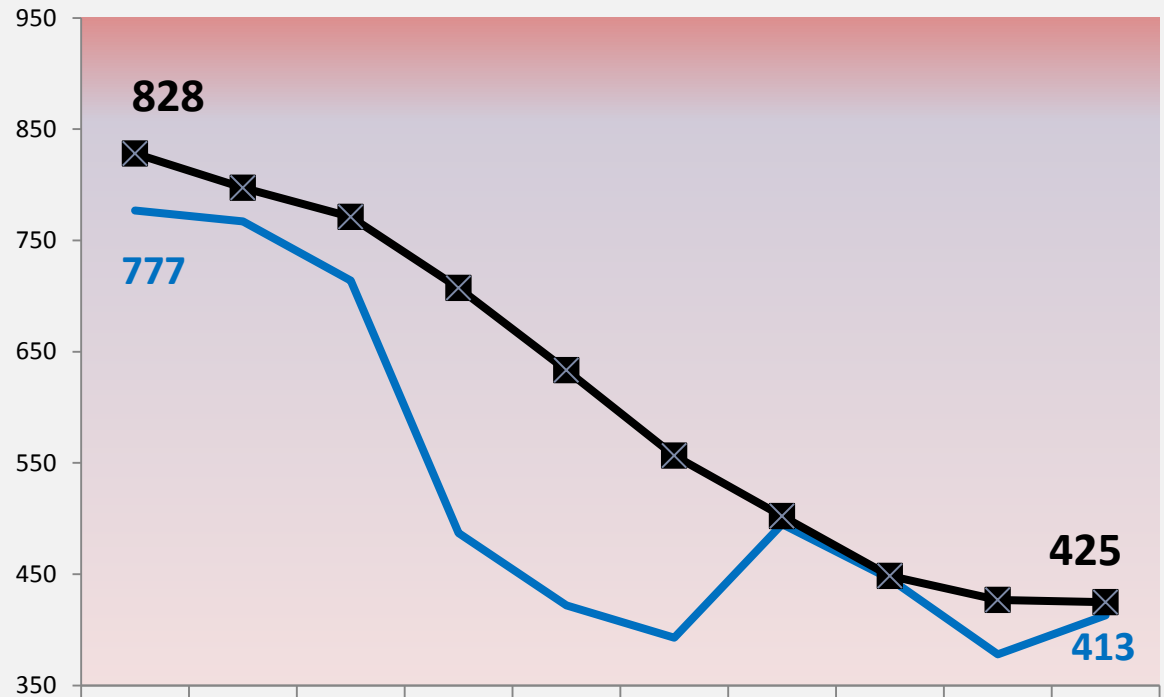
	2013	2014	2015
Fatalities	136	117	129
Serious Injuries	333	294	332
<b>Severe Injuries</b>	<b>469</b>	<b>411</b>	<b>461</b>
Roadway Departure Crash (~75%)	325	293	347
Intersection Crash (~14%)	61	32	65
Unrestrained Occupant (~54%)	254	220	250
Young Driver Involved	74	45	61
Older Driver Involved	43	37	26
Male Driver Involved (~76%)	380	324	349
Female Driver Involved	142	128	110
Non-motorized Involved	20	11	9
Motorcyclist	48	47	50
Large Vehicle	22	23	13

# 3-year Impaired Driver Involved Severe Injury Trend – by Crash Factor

(continued)

	2013	2014	2015
Fatalities	136	117	129
Serious Injuries	333	294	332
<b>Severe Injuries</b>	<b>469</b>	<b>411</b>	<b>461</b>
Rural Crash (~85%)	417	367	394
Urban Crash	52	44	67
June, July, and August (~36%)	168	152	164
Friday, Saturday, and Sunday (~57%)	274	244	263
Nighttime (~47%)	279	210	217
Shoulder Width less than 4 feet (~49%)	234	199	228
More than 2 lane roadway	101	51	58
Speed as a Factor (~27%)	97	89	125

# Unrestrained Occupants Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Unrestrained Occupant - Fatalities and Serious Injuries	777	767	714	487	422	393	495	446	378	413
5 Year Average ( F + SI )	828	797	771	707	633	557	502	449	427	425
Fatalities	149	158	124	107	93	118	117	109	103	118
Serious Injuries	628	609	590	380	329	275	378	337	275	295

Data as of 9/13/2016

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# 3-year Unrestrained Occupant Severe Injury Trend – by Crash Factor

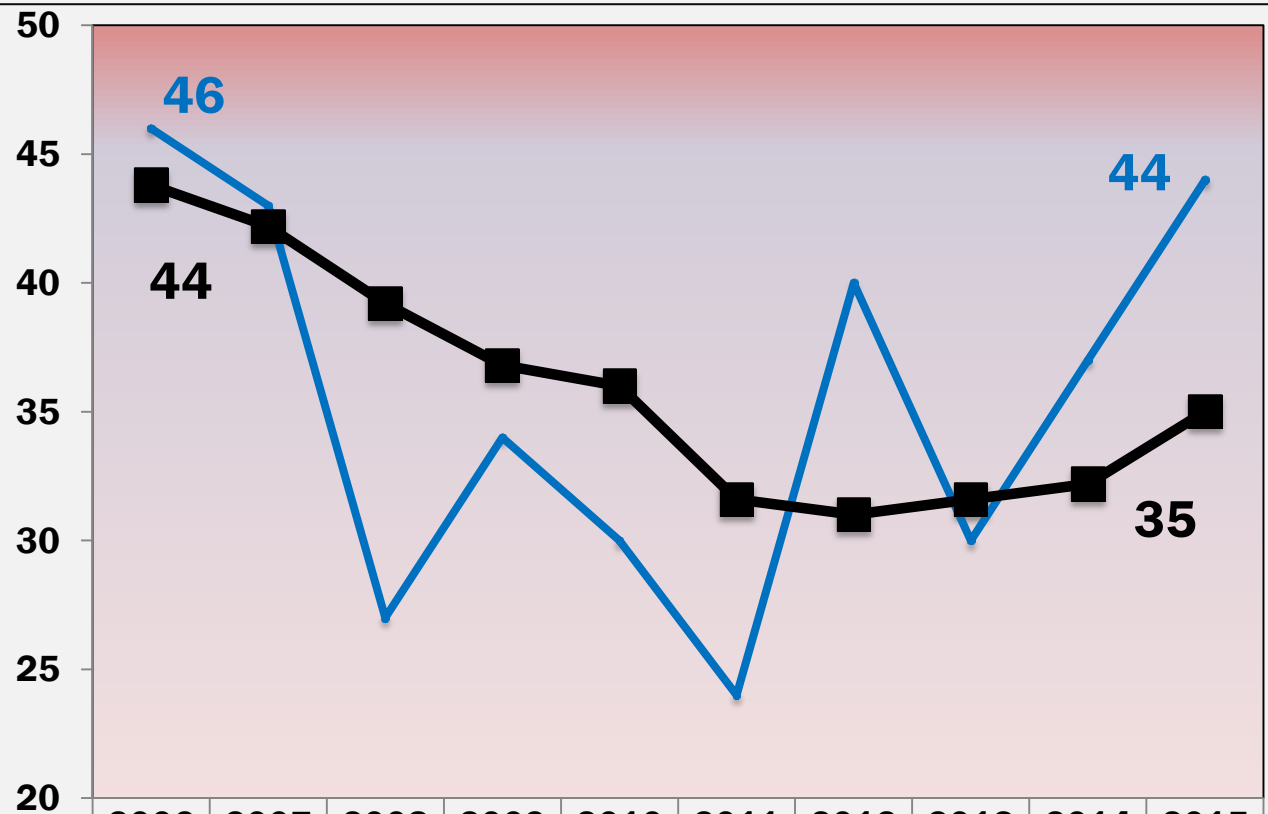
	2013	2014	2015
<b>Fatalities</b>	<b>109</b>	<b>103</b>	<b>118</b>
<b>Serious Injuries</b>	<b>337</b>	<b>275</b>	<b>295</b>
<b>Severe Injuries</b>	<b>446</b>	<b>378</b>	<b>413</b>
<b>Roadway Departure Crash (~80%)</b>	<b>316</b>	<b>270</b>	<b>331</b>
<b>Intersection Crash</b>	<b>74</b>	<b>43</b>	<b>46</b>
<b>Impaired Driver Involved (~61%)</b>	<b>254</b>	<b>220</b>	<b>250</b>
<b>Young Driver Involved</b>	<b>89</b>	<b>64</b>	<b>94</b>
<b>Older Driver Involved</b>	<b>44</b>	<b>43</b>	<b>44</b>
<b>Male Driver Involved (~72%)</b>	<b>351</b>	<b>281</b>	<b>298</b>
<b>Female Driver Involved</b>	<b>142</b>	<b>135</b>	<b>144</b>
<b>Large Vehicle</b>	<b>28</b>	<b>24</b>	<b>44</b>

# 3-year Unrestrained Occupant Severe Injury Trend – by Crash Factor

(continued)

	2013	2014	2015
<b>Fatalities</b>	<b>109</b>	<b>103</b>	<b>118</b>
<b>Serious Injuries</b>	<b>337</b>	<b>275</b>	<b>295</b>
<b>Severe Injuries</b>	<b>446</b>	<b>378</b>	<b>413</b>
<b>Rural Crash (~91%)</b>	<b>400</b>	<b>318</b>	<b>375</b>
<b>Urban Crash</b>	<b>46</b>	<b>60</b>	<b>38</b>
<b>June, July, and August (~32%)</b>	<b>142</b>	<b>130</b>	<b>132</b>
<b>Friday, Saturday, and Sunday (~51%)</b>	<b>230</b>	<b>193</b>	<b>210</b>
<b>Nighttime (~43%)</b>	<b>215</b>	<b>167</b>	<b>177</b>
<b>Shoulder Width less than 4 feet (~50%)</b>	<b>187</b>	<b>174</b>	<b>207</b>
<b>More than 2 lane roadway</b>	<b>134</b>	<b>51</b>	<b>43</b>
<b>Speed as a Factor</b>	<b>92</b>	<b>91</b>	<b>115</b>

# Native American Fatalities



— Native American Fatalities  
 ■ 5 Year Average

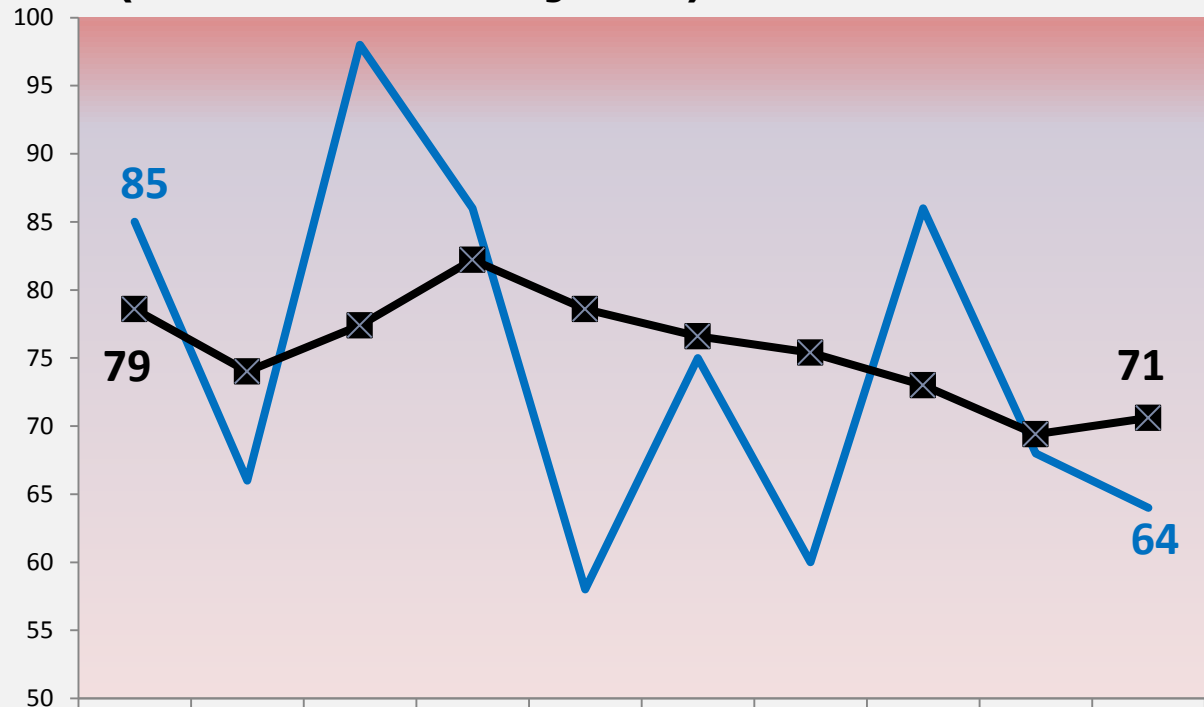
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Native American Fatalities	46	43	27	34	30	24	40	30	37	44
5 Year Average	44	42	39	37	36	32	31	32	32	35

FARS Data as of 10/26/2016

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# Non-Motorized Fatalities & Serious Injuries (Pedestrian / Bicyclist)



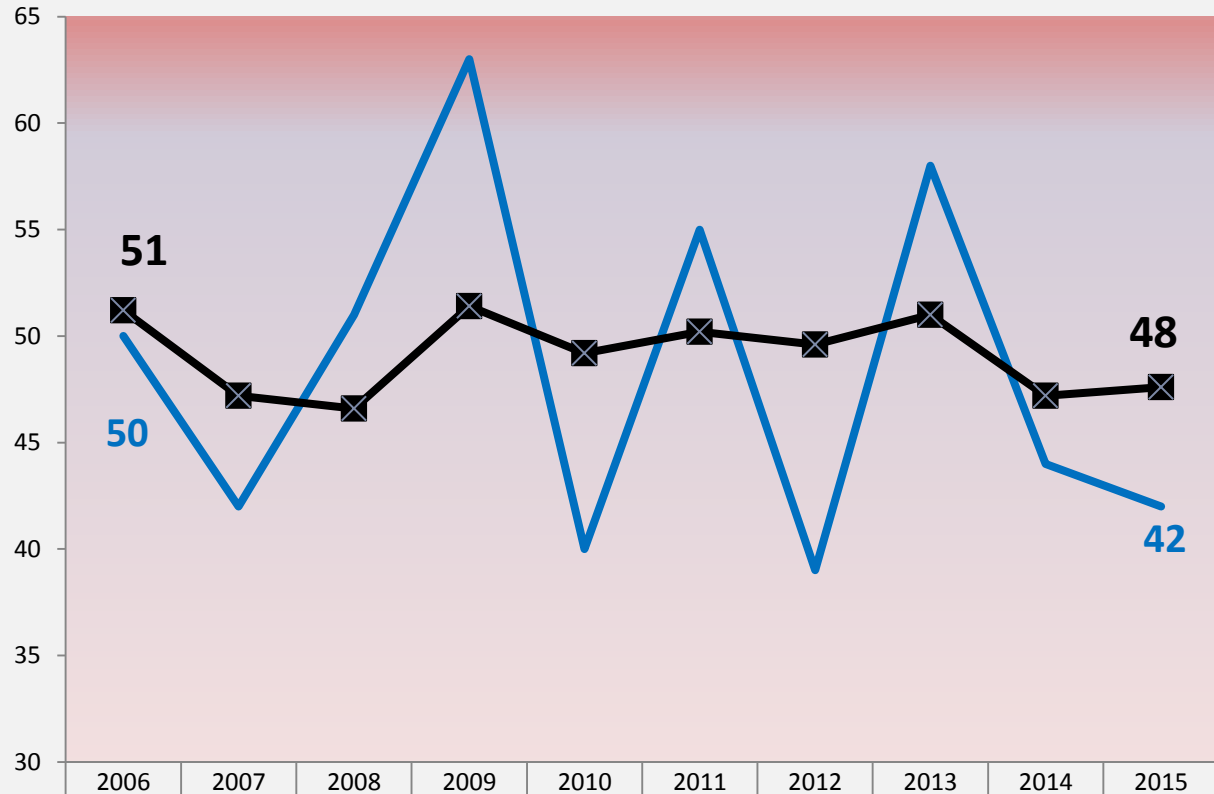
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Pedestrian / Bicyclist - Fatalities and Serious Injuries	85	66	98	86	58	75	60	86	68	64
— 5 Year Average ( F + SI )	79	74	77	82	79	77	75	73	69	71
Fatalities	14	19	14	16	8	16	12	25	11	15
Serious Injuries	71	47	84	70	50	59	48	61	57	49

Data as of 9/13/2016

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# Pedestrian Fatalities & Serious Injuries



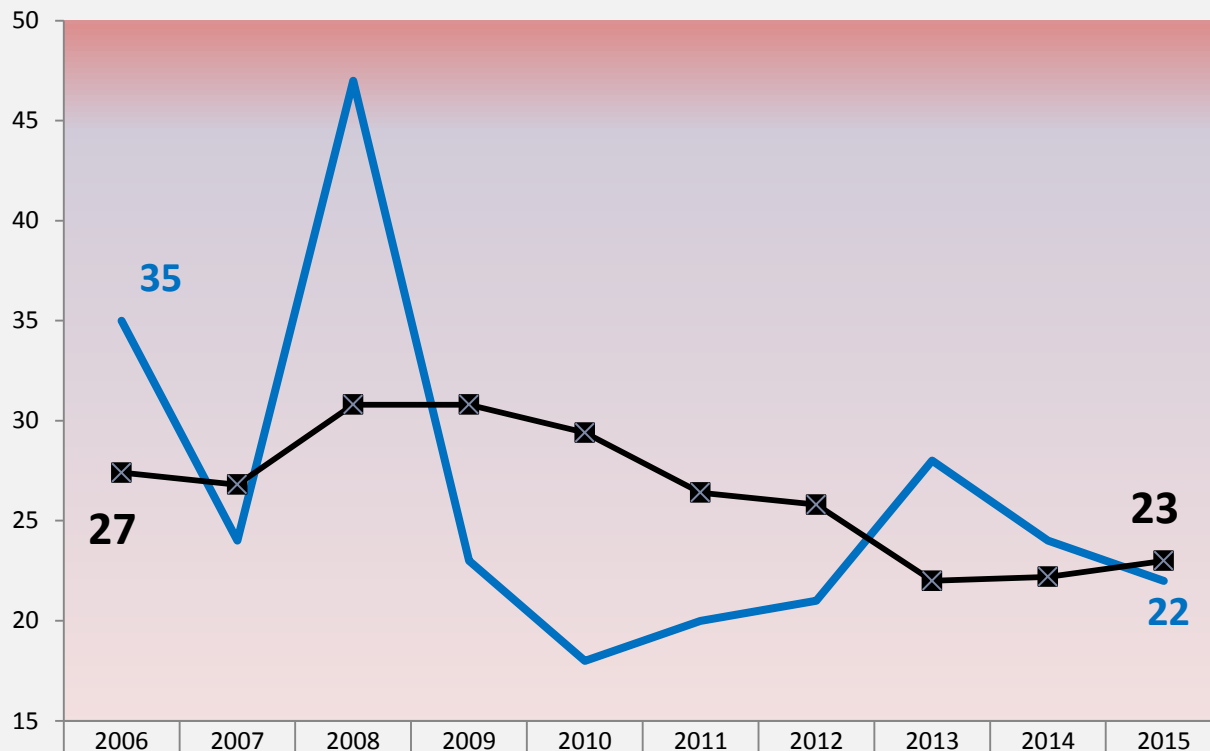
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Pedestrian - Fatalities and Serious Injuries	50	42	51	63	40	55	39	58	44	42
— 5 Year Average ( F + SI )	51	47	47	51	49	50	50	51	47	48
Fatalities	12	15	11	15	8	15	11	24	9	14
Serious Injuries	38	27	40	48	32	40	28	34	35	28

Data as of 9/13/2016

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# Bicyclists Fatalities & Serious Injuries



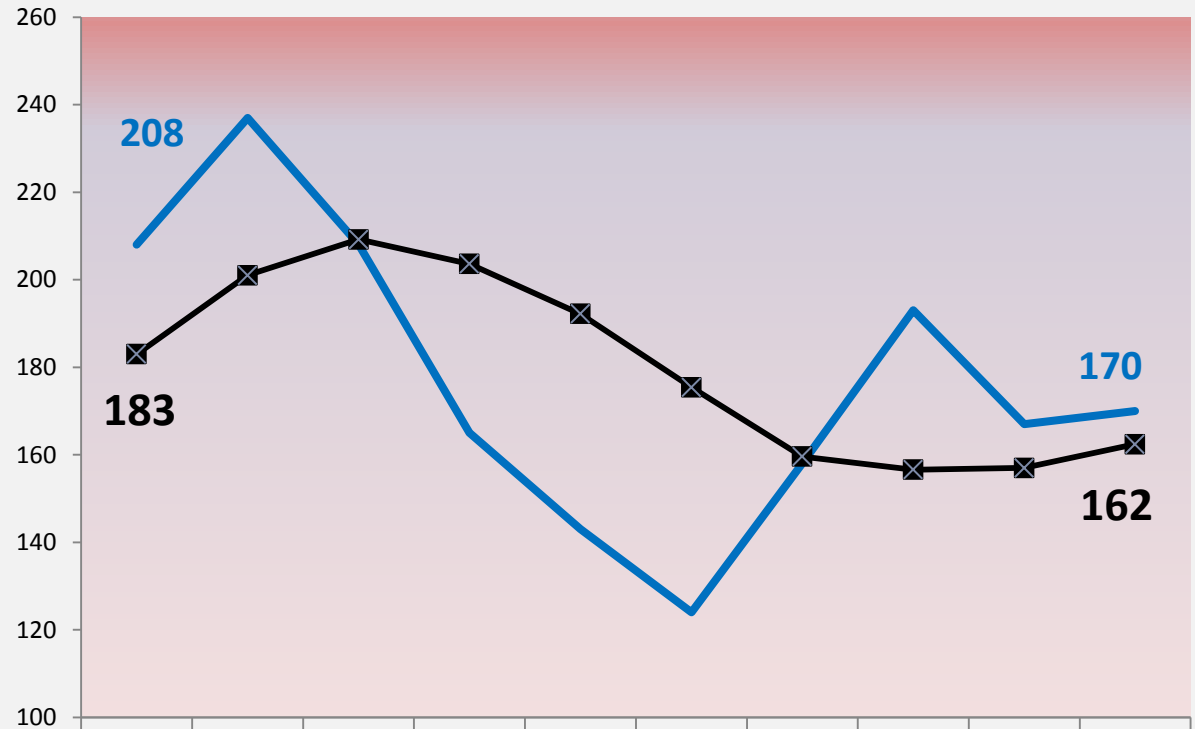
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Bicyclist - Fatalities and Serious Injuries	35	24	47	23	18	20	21	28	24	22
— 5 Year Average ( F + SI )	27	27	31	31	29	26	26	22	22	23
Fatalities	2	4	3	1	0	1	1	1	2	1
Serious Injuries	33	20	44	22	18	19	20	27	22	21

Data as of 9/13/2016

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# Motorcyclists Fatalities & Serious Injuries



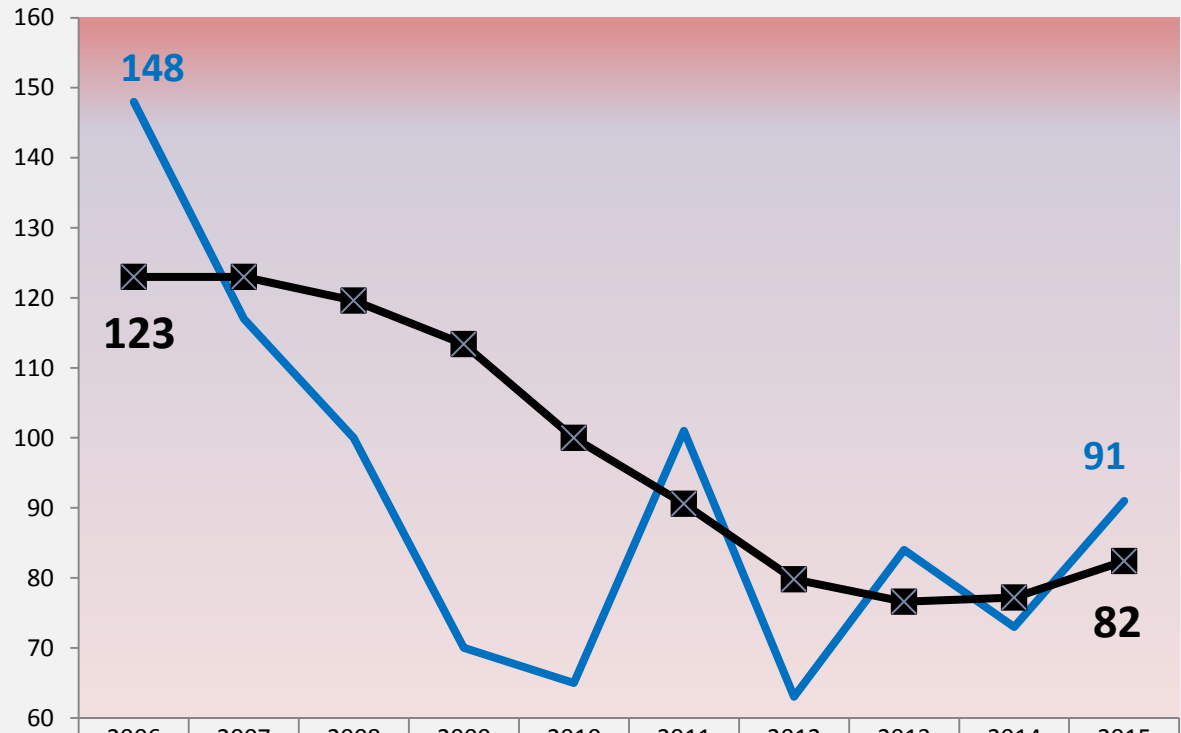
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
<span style="color: blue;">—</span> Motorcyclist - Fatalities and Serious Injuries	208	237	208	165	143	124	158	193	167	170
<span style="color: black;">—x—</span> 5 Year Average ( F + SI )	183	201	209	204	192	175	160	157	157	162
Fatalities	26	36	36	26	25	20	30	34	23	25
Serious Injuries	182	201	172	139	118	104	128	159	144	145

Data as of 9/13/2016

Montana Comprehensive Highway Safety Plan  
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# Large Vehicle Involved Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Large Vehicle - Fatalities and Serious Injuries	148	117	100	70	65	101	63	84	73	91
—x— 5 Year Average ( F + SI )	123	123	120	113	100	91	80	77	77	82
Fatalities	33	34	25	27	18	32	11	21	14	22
Serious Injuries	115	83	75	43	47	69	52	63	59	69

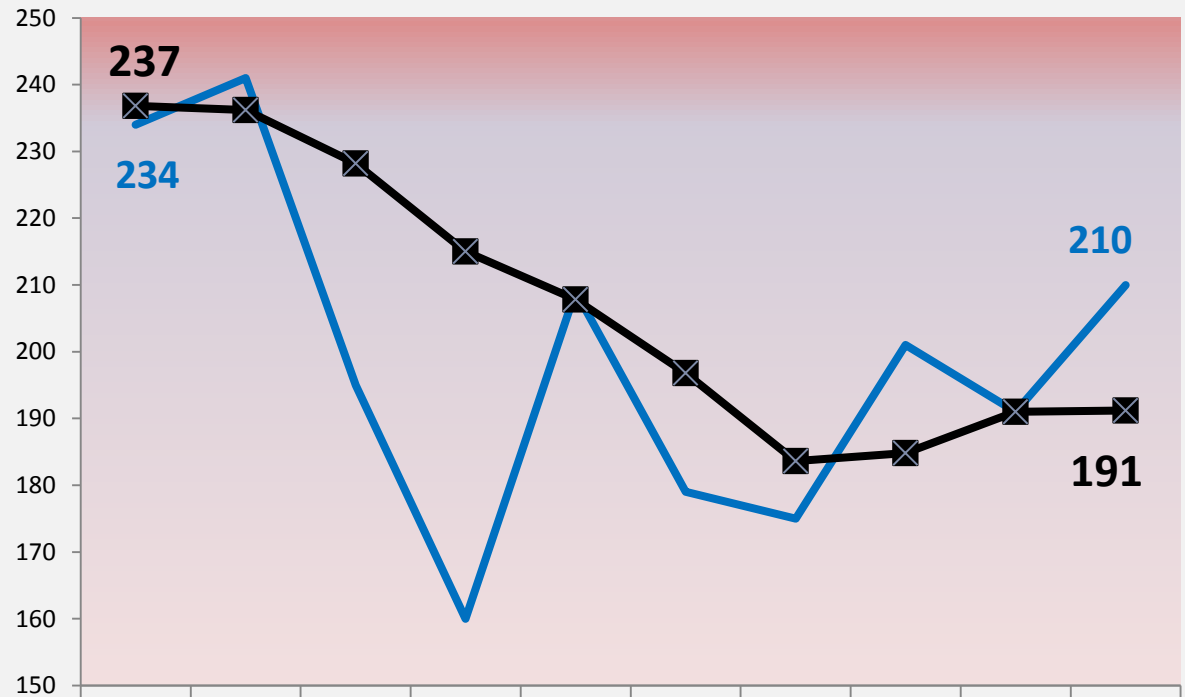
Data as of 9/13/2016

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# Older Driver Involved Fatalities & Serious Injuries



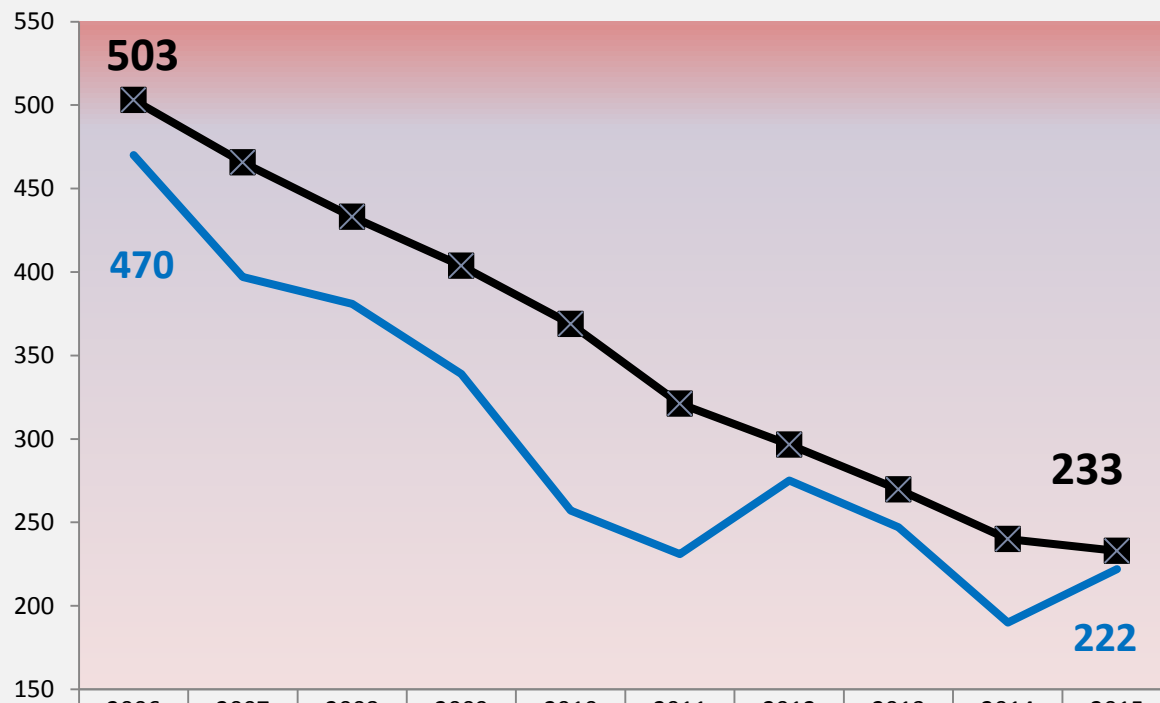
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Older Driver Involved - Fatalities and Serious Injuries	234	241	195	160	209	179	175	201	191	210
5 Year Average ( F + SI )	237	236	228	215	208	197	184	185	191	191
Fatalities	44	39	31	37	41	40	26	51	32	46
Serious Injuries	190	202	164	123	168	139	149	150	159	164

Data as of 9/13/2016

Montana Comprehensive Highway Safety Plan  
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# Young Driver Involved Fatalities & Serious Injuries



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
— Young Driver Involved - Fatalities and Serious Injuries	470	397	381	339	257	231	275	247	190	222
— 5 Year Average ( F + SI )	503	466	433	404	369	321	297	270	240	233
Fatalities	44	38	37	42	41	29	29	26	27	36
Serious Injuries	426	359	344	297	216	202	246	221	163	186

Data as of 9/13/2016

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About this Program

One life lost is one too many.

*"The Department of Transportation and our partners are united in our mission to save lives on Montana roads."*

—Mike Tooley, MDT Director

**Safer Roads**  
Ensuring that Montana's state roads and highways are built and maintained with safety as the first concern.  
[Explore this](#)

**DRIVE SAFELY**  
There were 192 fatalities in 2014. There have been **179** fatalities on Montana highways in 2015 compared to **160** fatalities for this same time in 2014.  
[Explore this](#)

**Safer People**  
We can't do this without the complete support of every Montanan. Together, we can save lives.  
[Explore this](#)

**Plans & Programs**  
The resources our partners need as we aim Montana toward zero deaths and injuries on our highways.  
[Explore this](#)

**Crash Data**  
Crash data is available by county, city, and reservation.  
[Explore this](#)

**Grants**  
MDT administers federal grant monies for safety programs aimed at reducing deaths, injuries, and property losses resulting from traffic crashes.  
[Explore this](#)

Data & Statistics : <http://www.mdt.mt.gov/publications/datastats/crashdata.shtml>

Montana Comprehensive Highway Safety Plan  
2015-2020

**#VisionZeroMT**  
zero deaths | zero serious injuries