

# Montana Crash Data Summary

2017 Annual Transportation  
Safety Planning Meeting

Great Northern Hotel

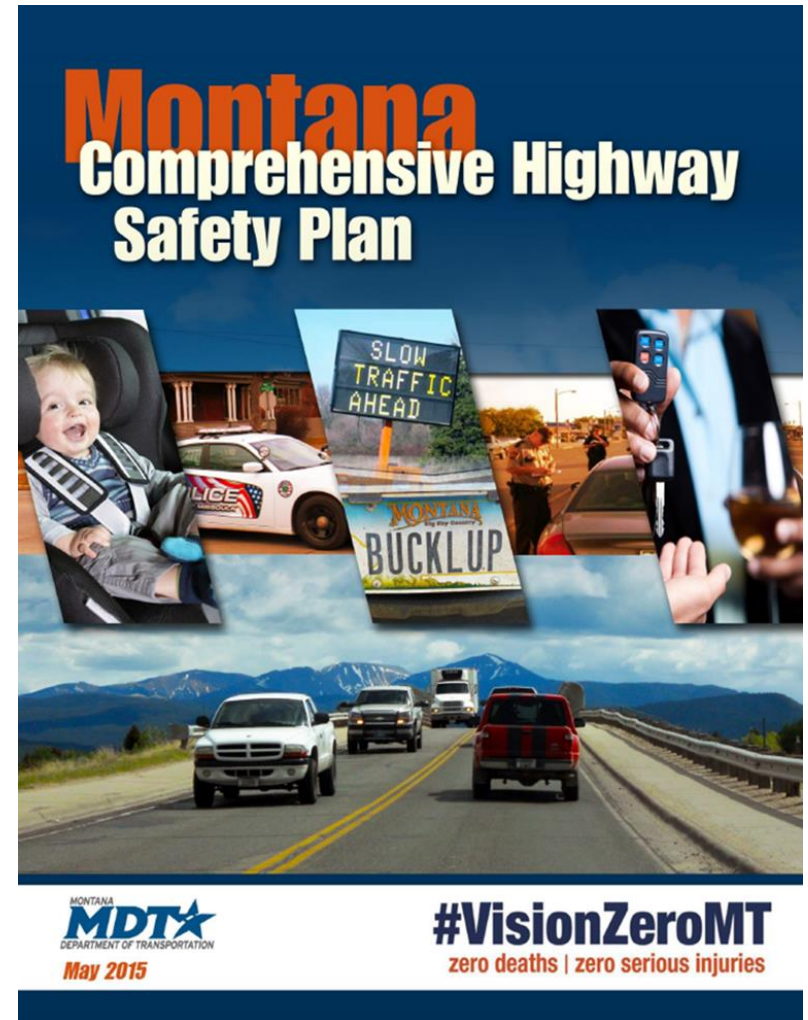
Helena, MT

October 11, 2017

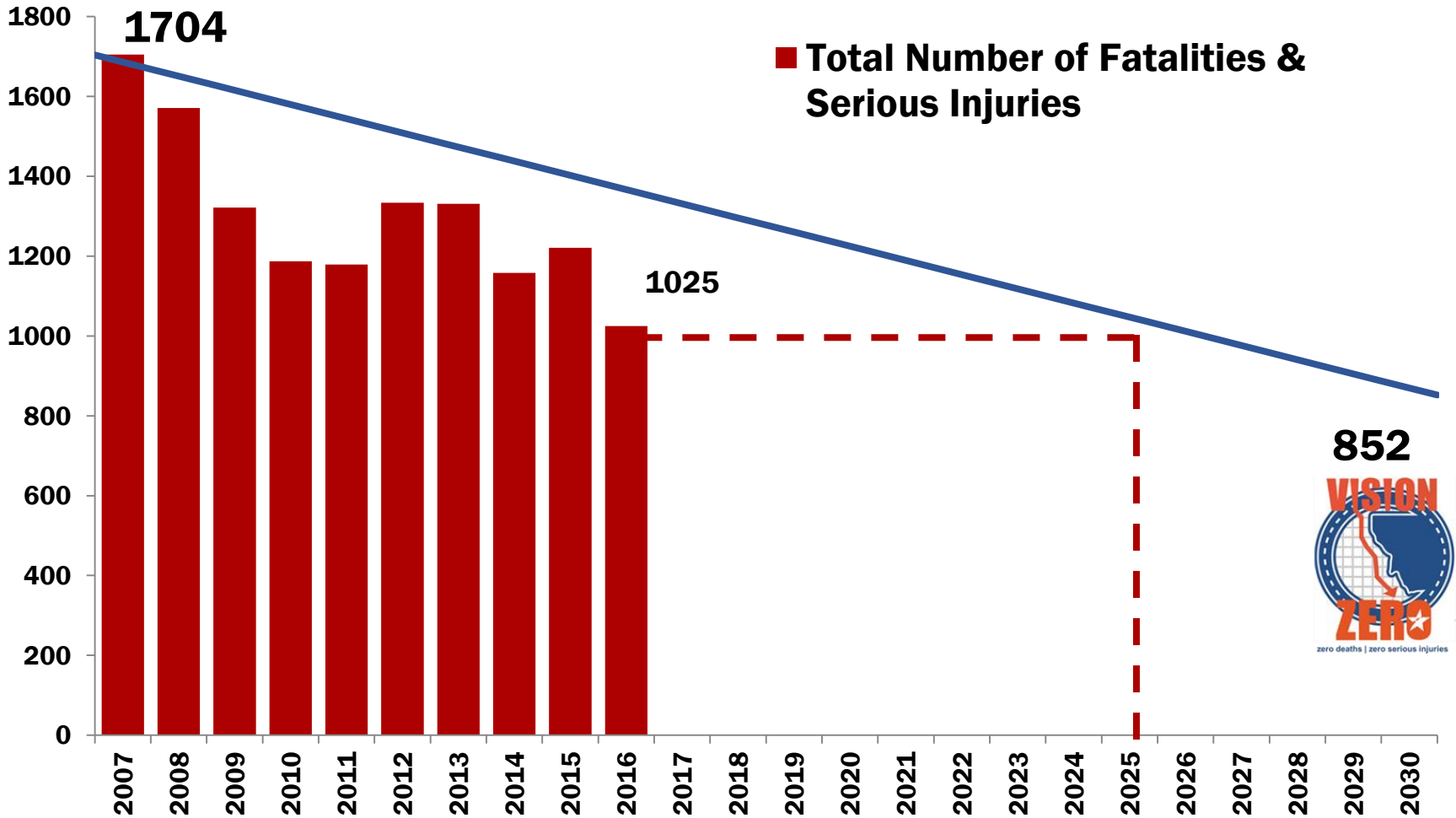
Patricia Burke

Traffic & Safety Bureau,  
Engineering Division

Montana Department of  
Transportation



# CHSP Interim Safety Goal

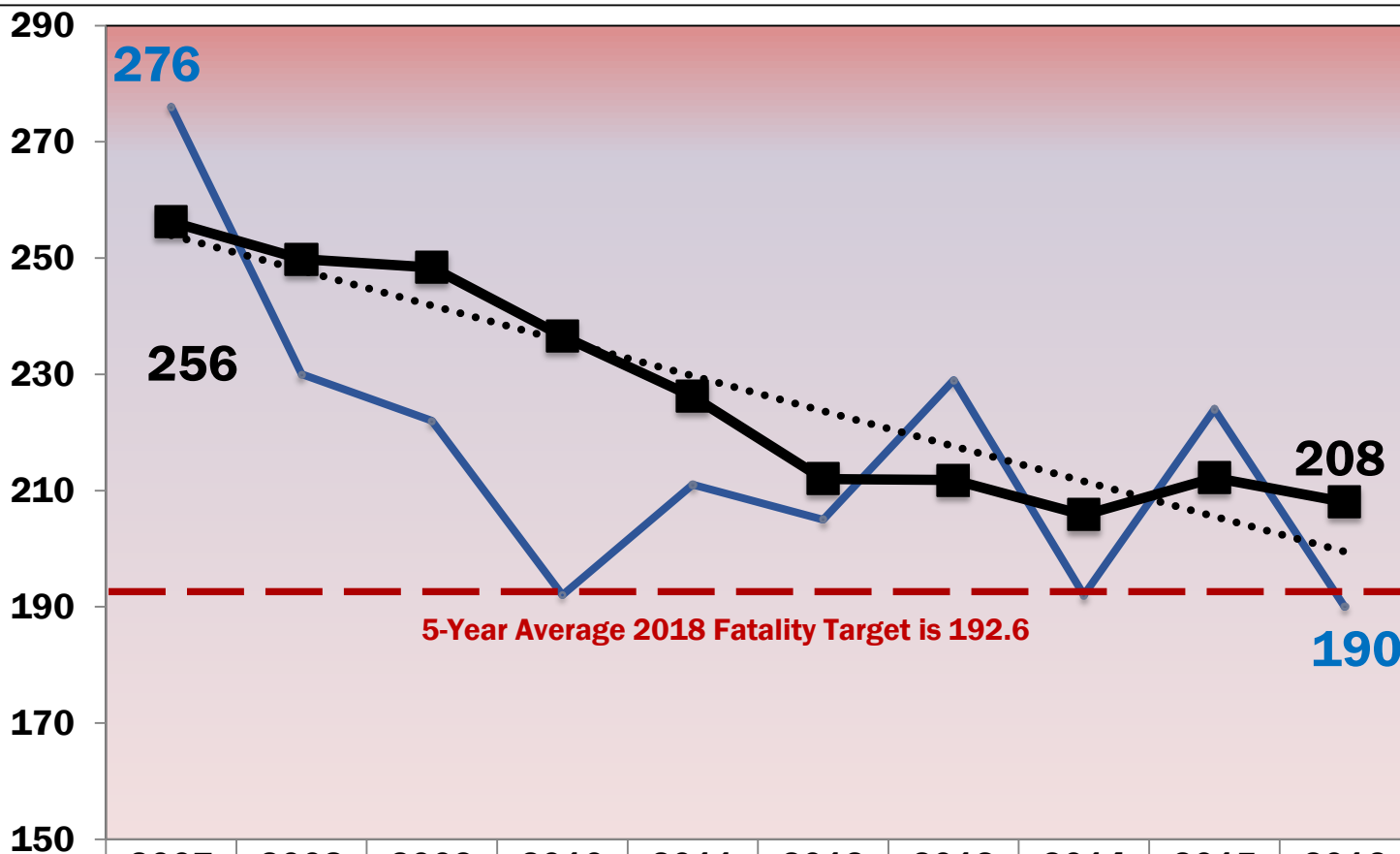


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# CHSP Safety Targets: Reduction in the Number of Fatalities



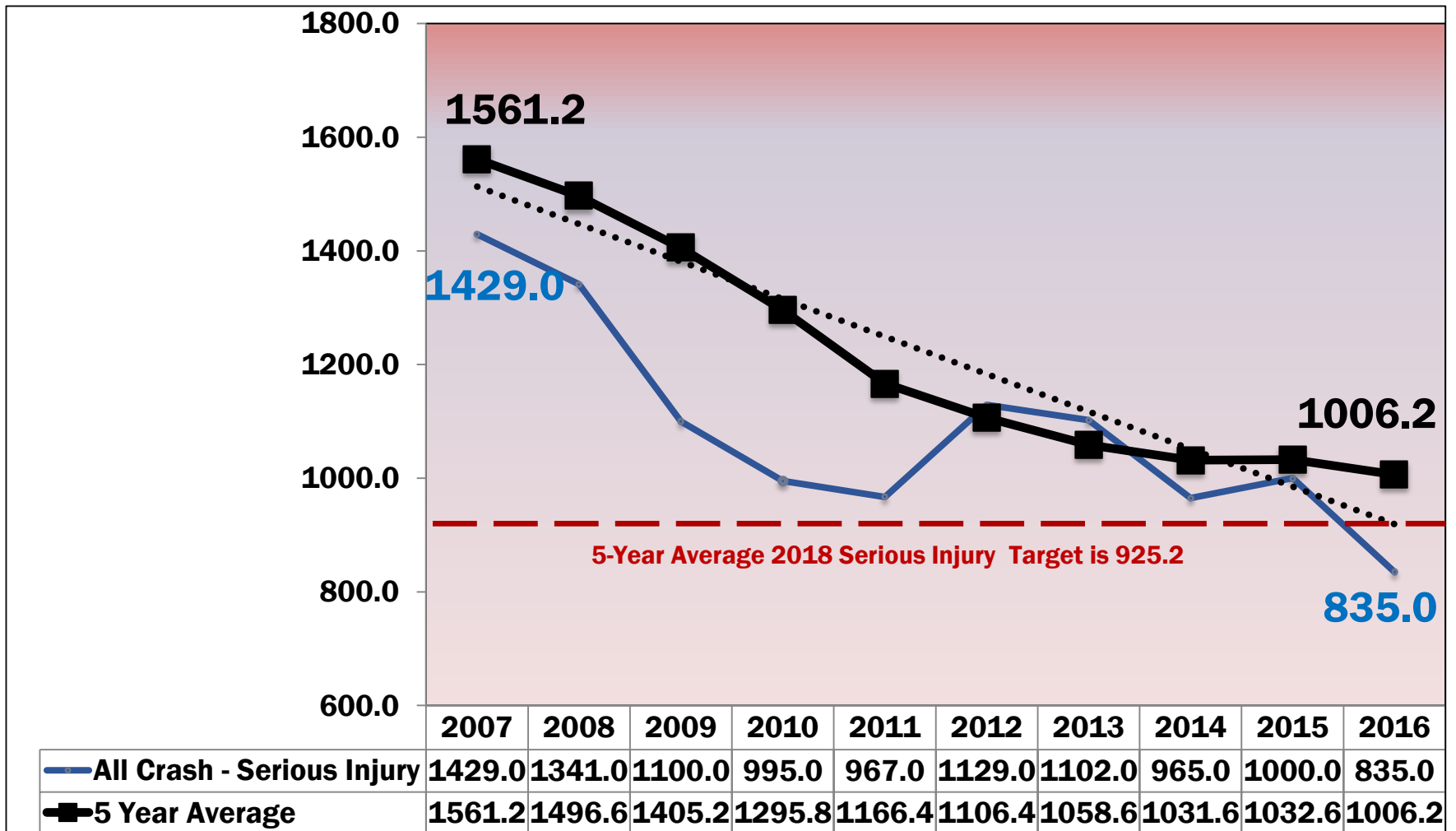
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
— All Crash - Fatality	276	230	222	192	211	205	229	192	224	190
■ 5 Year Average	256	250	248	237	226	212	212	206	212	208

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# CHSP Safety Targets: Reduction in the Number of Serious Injuries

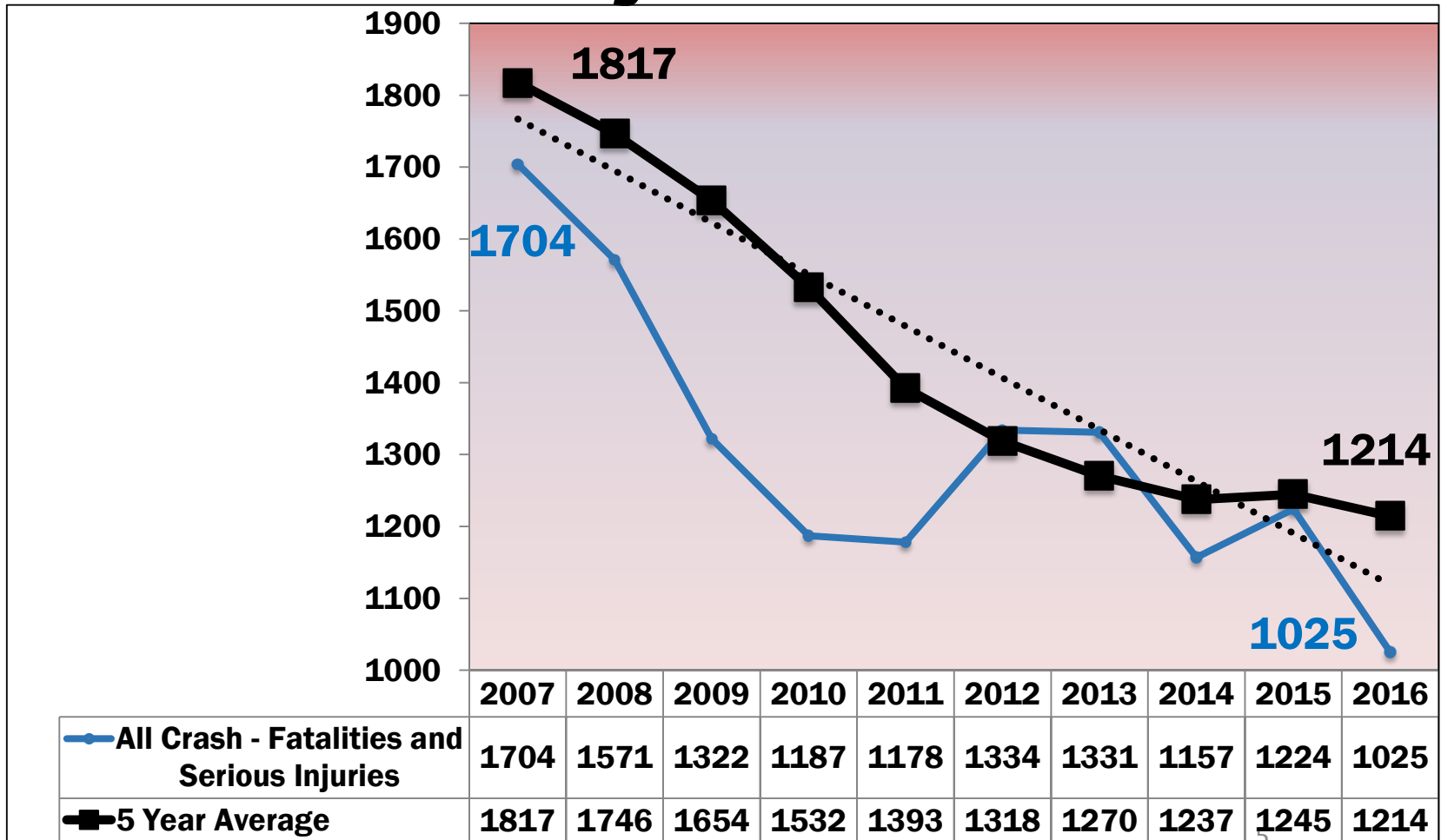


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# Total Fatalities & Serious Injuries



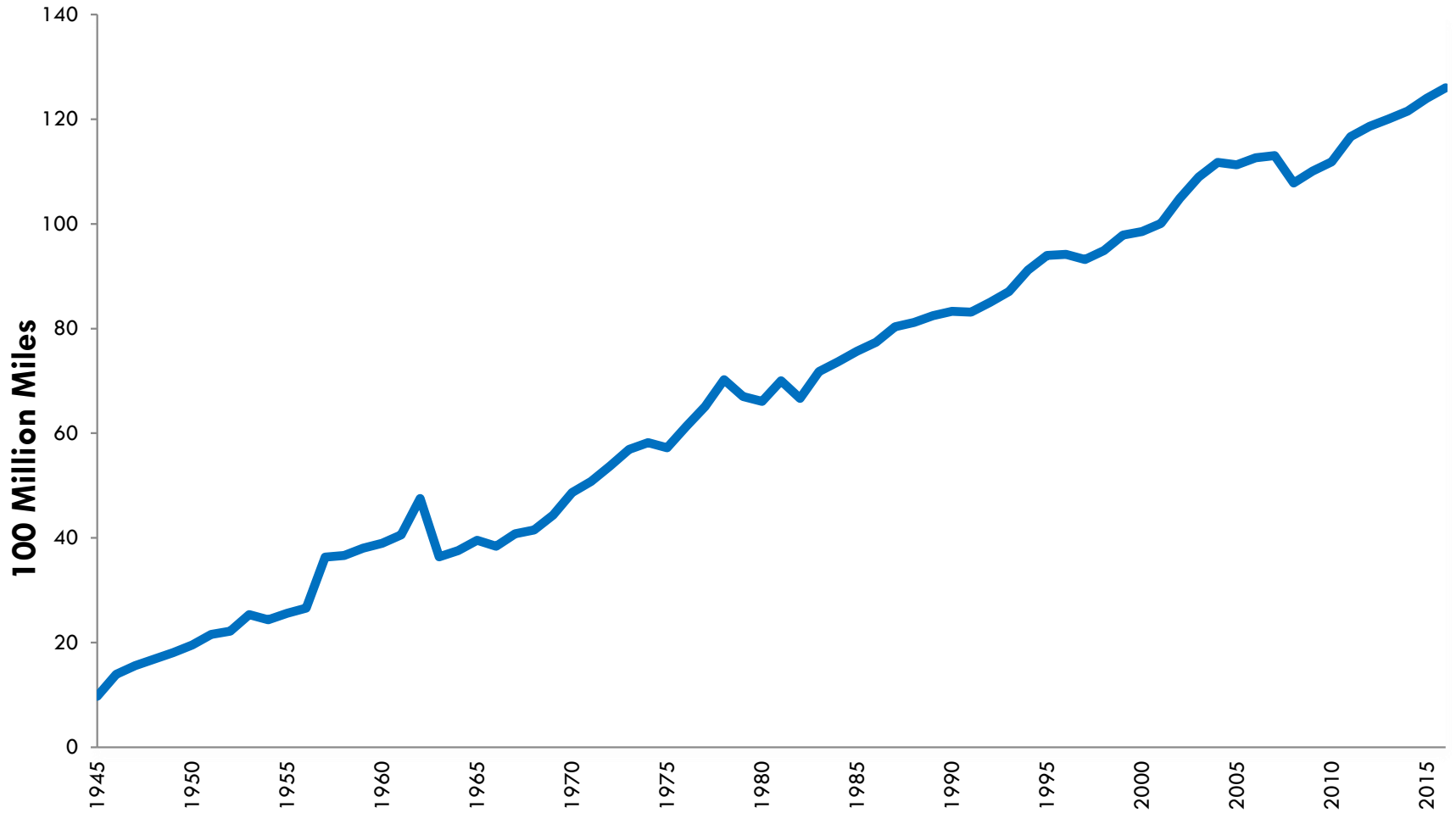
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# MT VMT Trends

## 1945-2016

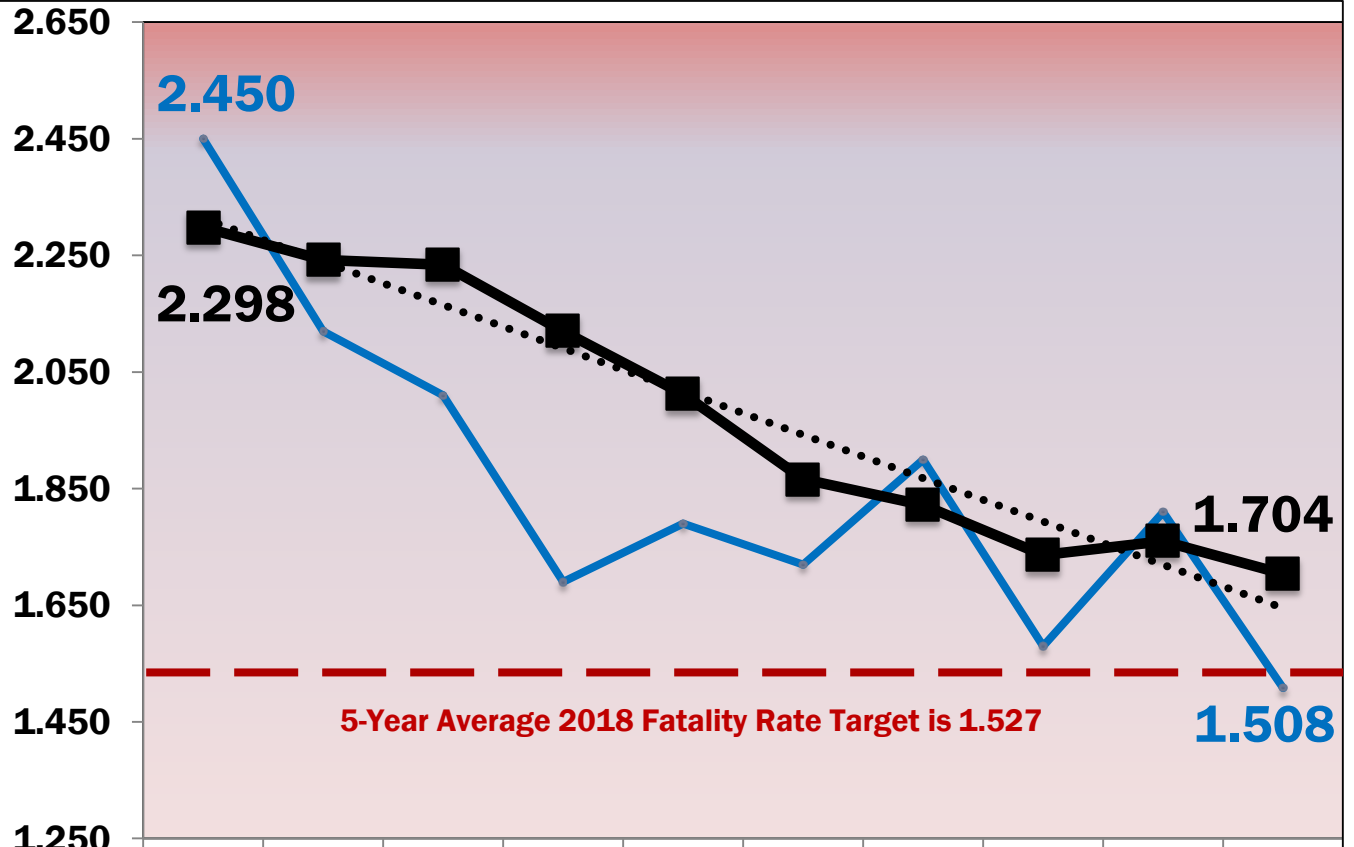


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# CHSP Safety Targets: Reduction in the Fatality Rate



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
— Fatality Rate (FARS)	2.450	2.120	2.010	1.690	1.790	1.720	1.900	1.580	1.810	1.508
■ 5 Year Average	2.298	2.242	2.234	2.120	2.012	1.866	1.822	1.736	1.760	1.704

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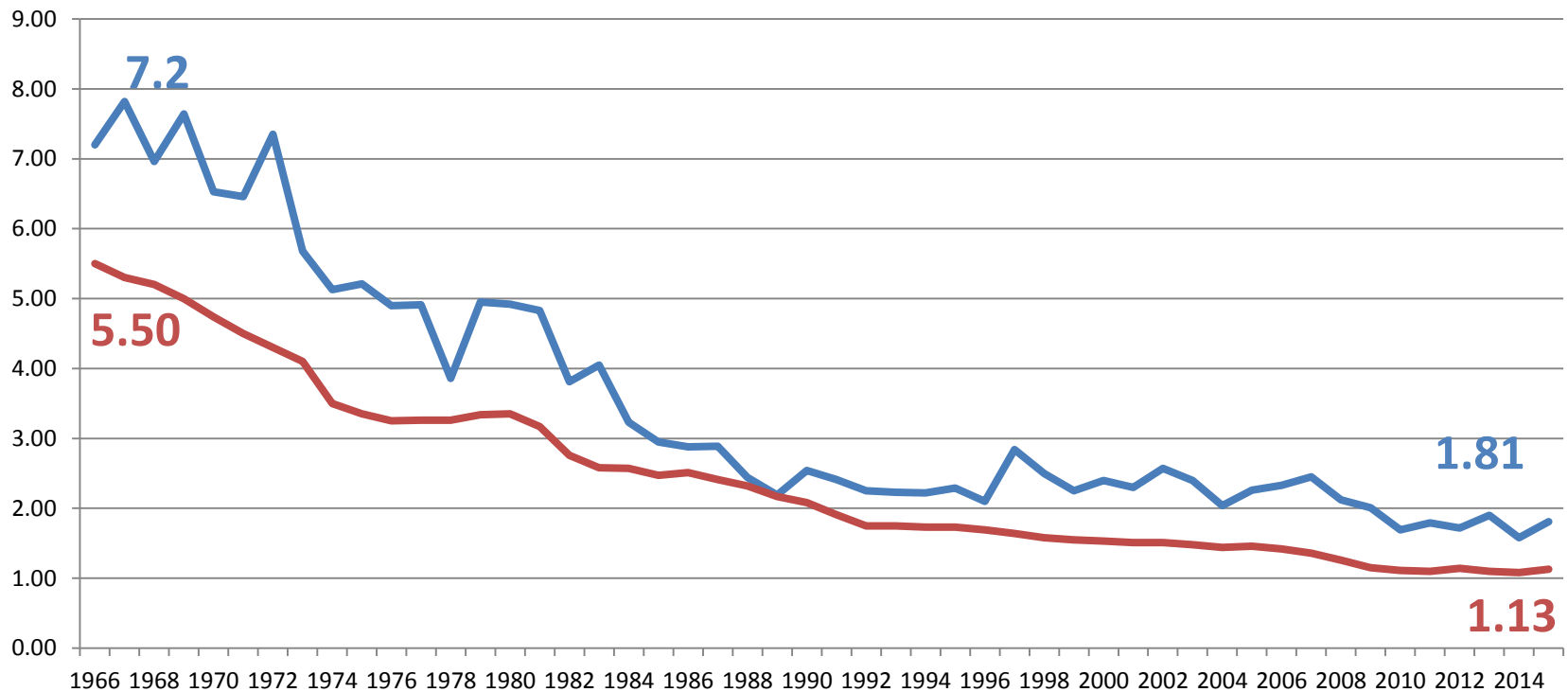
NHTSA data is currently available through 2015  
2016 rate calculated using MDT VMT value

# Fatality Rates – MT vs. US

## Fatality Rates (1966-2015)

— Montana

— USA



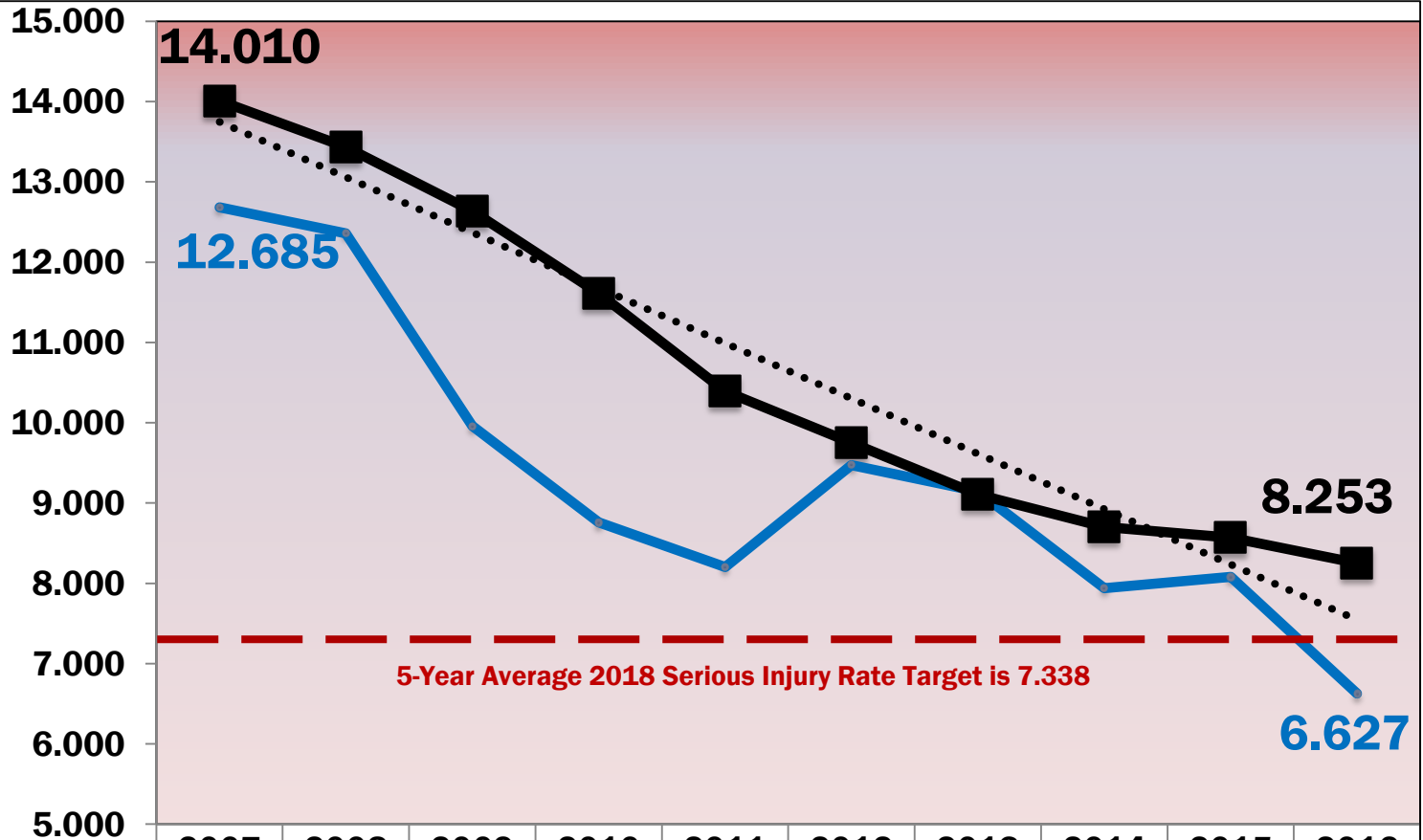
NHTSA data currently available through 2015

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# CHSP Safety Targets: Reduction in the Serious Injury Rate



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>— Serious Injury Rate</b>	12.685	12.361	9.959	8.758	8.203	9.473	9.143	7.941	8.080	6.627
<b>■ 5 Year Average</b>	14.010	13.433	12.638	11.612	10.393	9.751	9.107	8.704	8.568	8.253

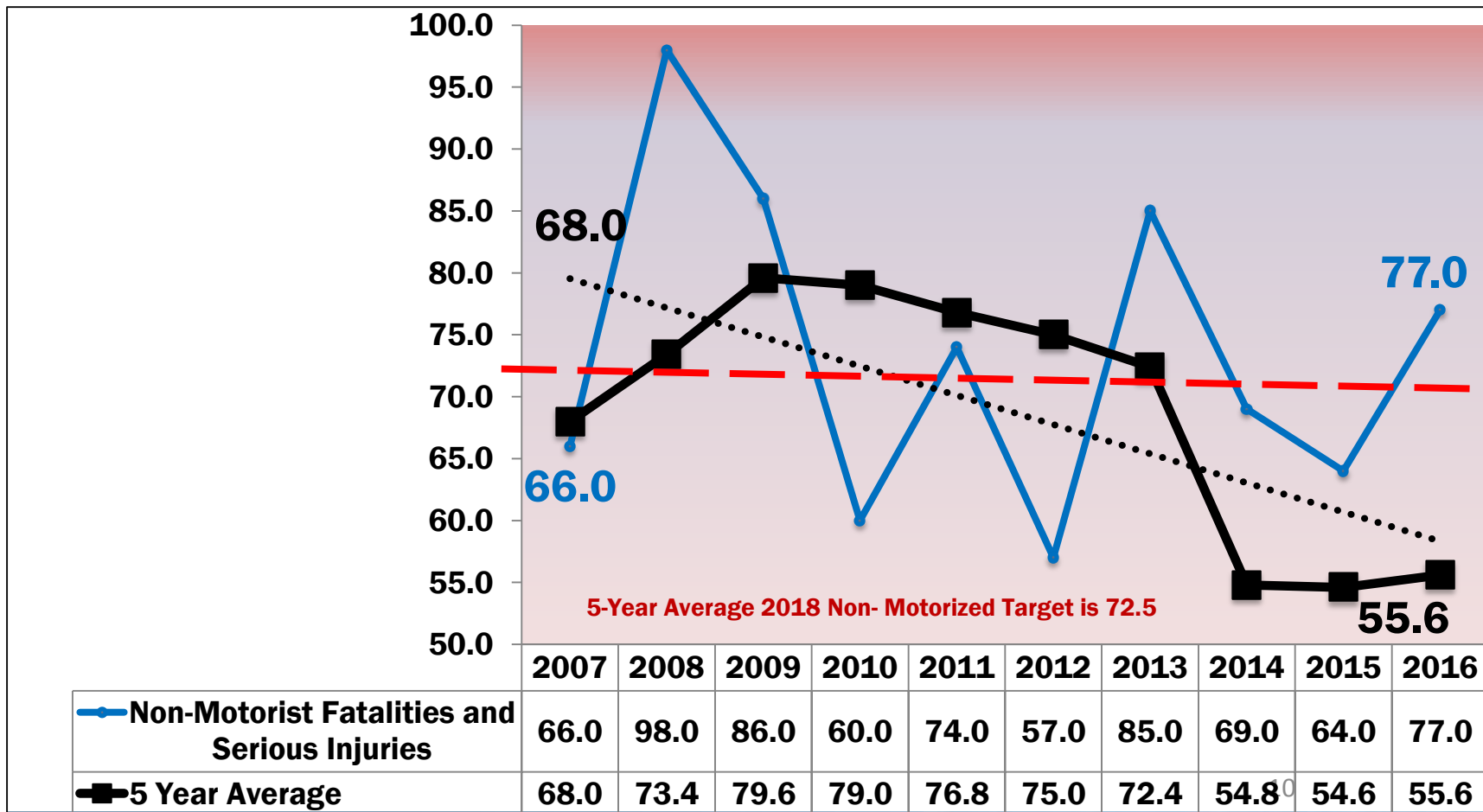
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NHTSA data is currently available through 2015  
2016 rate calculated using MDT VMT value

# CHSP Safety Targets

## Reduction of Non-Motorized Fatalities & Serious Injuries ( Pedestrian & Bicyclists)



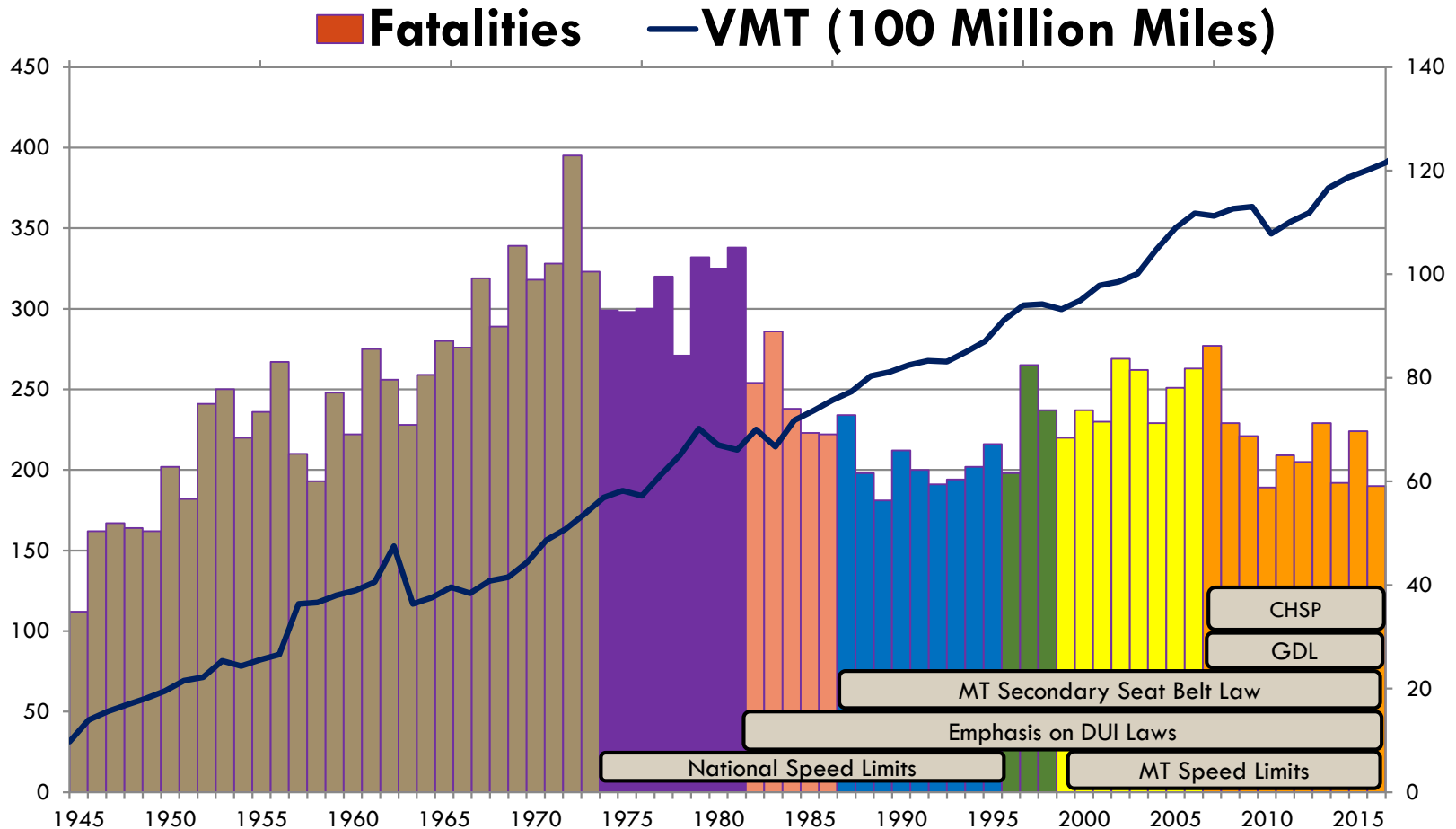
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# Fatalities & Legislative Actions

## 1945-2016



# 3-Year Severe Injury Trend

## -by Crash Factor

	2014	2015	2016
<b>Fatalities</b>	<b>192</b>	<b>224</b>	<b>190</b>
<b>Serious Injuries</b>	<b>965</b>	<b>1,000</b>	<b>835</b>
<b>Severe Injuries</b>	<b>1,157</b>	<b>1,224</b>	<b>1,025</b>
<b>Roadway Departure Crash (58%)</b>	<b>665</b>	<b>735</b>	<b>584</b>
<b>Intersection Crash (19%)</b>	<b>188</b>	<b>255</b>	<b>204</b>
<b>Impaired Driver Involved (38%)</b>	<b>414</b>	<b>461</b>	<b>425</b>
<b>Unrestrained Occupant (33%)</b>	<b>346</b>	<b>413</b>	<b>362</b>
<b>Older Driver Involved (17%)</b>	<b>191</b>	<b>210</b>	<b>190</b>
<b>Young Driver Involved (17%)</b>	<b>181</b>	<b>222</b>	<b>177</b>
<b>Male Driver Involved (75%)</b>	<b>857</b>	<b>935</b>	<b>756</b>
<b>Female Driver Involved (39%)</b>	<b>465</b>	<b>454</b>	<b>416</b>
<b>Non-motorized Involved (6%)</b>	<b>69</b>	<b>64</b>	<b>77</b>
<b>Motorcyclist (14%)</b>	<b>167</b>	<b>170</b>	<b>137</b>

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# 3-Year Severe Injury Trend

## -by Crash Factor (continued)

	2014	2015	2016
<b>Fatalities</b>	<b>192</b>	<b>224</b>	<b>190</b>
<b>Serious Injuries</b>	<b>965</b>	<b>1,000</b>	<b>835</b>
<b>Severe Injuries</b>	<b>1,157</b>	<b>1,224</b>	<b>1,025</b>
<b>Rural Crash (81%)</b>	<b>939</b>	<b>979</b>	<b>826</b>
<b>Urban Crash (19%)</b>	<b>218</b>	<b>245</b>	<b>199</b>
<b>June, July, and August (36%)</b>	<b>410</b>	<b>452</b>	<b>354</b>
<b>Friday, Saturday, and Sunday (50%)</b>	<b>580</b>	<b>598</b>	<b>517</b>
<b>Nighttime (31%)</b>	<b>347</b>	<b>359</b>	<b>333</b>
<b>Shoulder Width less than 4 feet (40%)</b>	<b>480</b>	<b>487</b>	<b>407</b>
<b>More than 2 lane roadway (26%)</b>	<b>306</b>	<b>317</b>	<b>253</b>
<b>Speed as a Factor (21%)</b>	<b>244</b>	<b>277</b>	<b>193</b>
<b>Large Vehicle (7%)</b>	<b>73</b>	<b>91</b>	<b>74</b>
<b>Low Volume Roadway (AADT &lt; 750) (35%)</b>	<b>399</b>	<b>436</b>	<b>354</b>

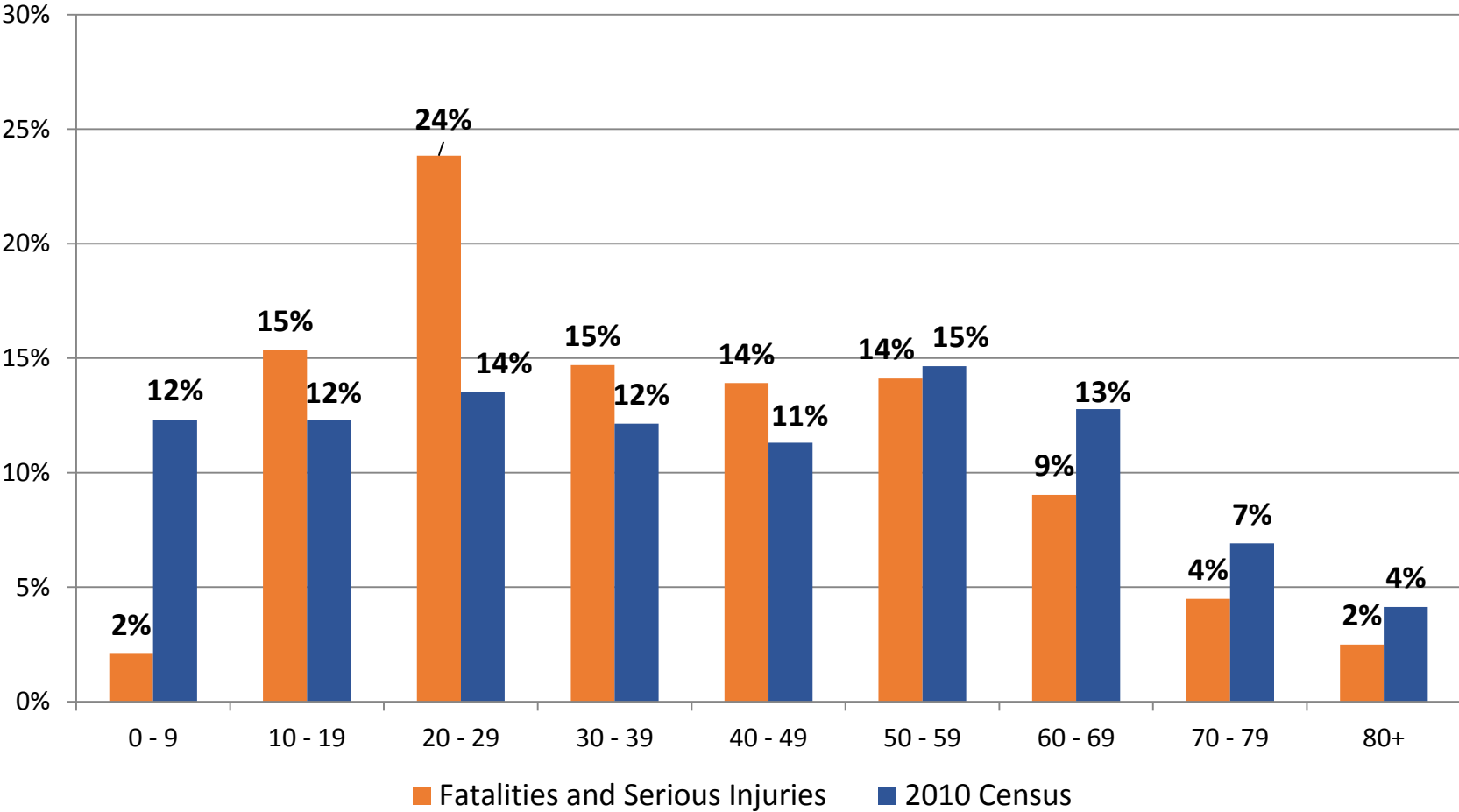
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# Fatalities & Serious Injuries by Age

## 2007-2016



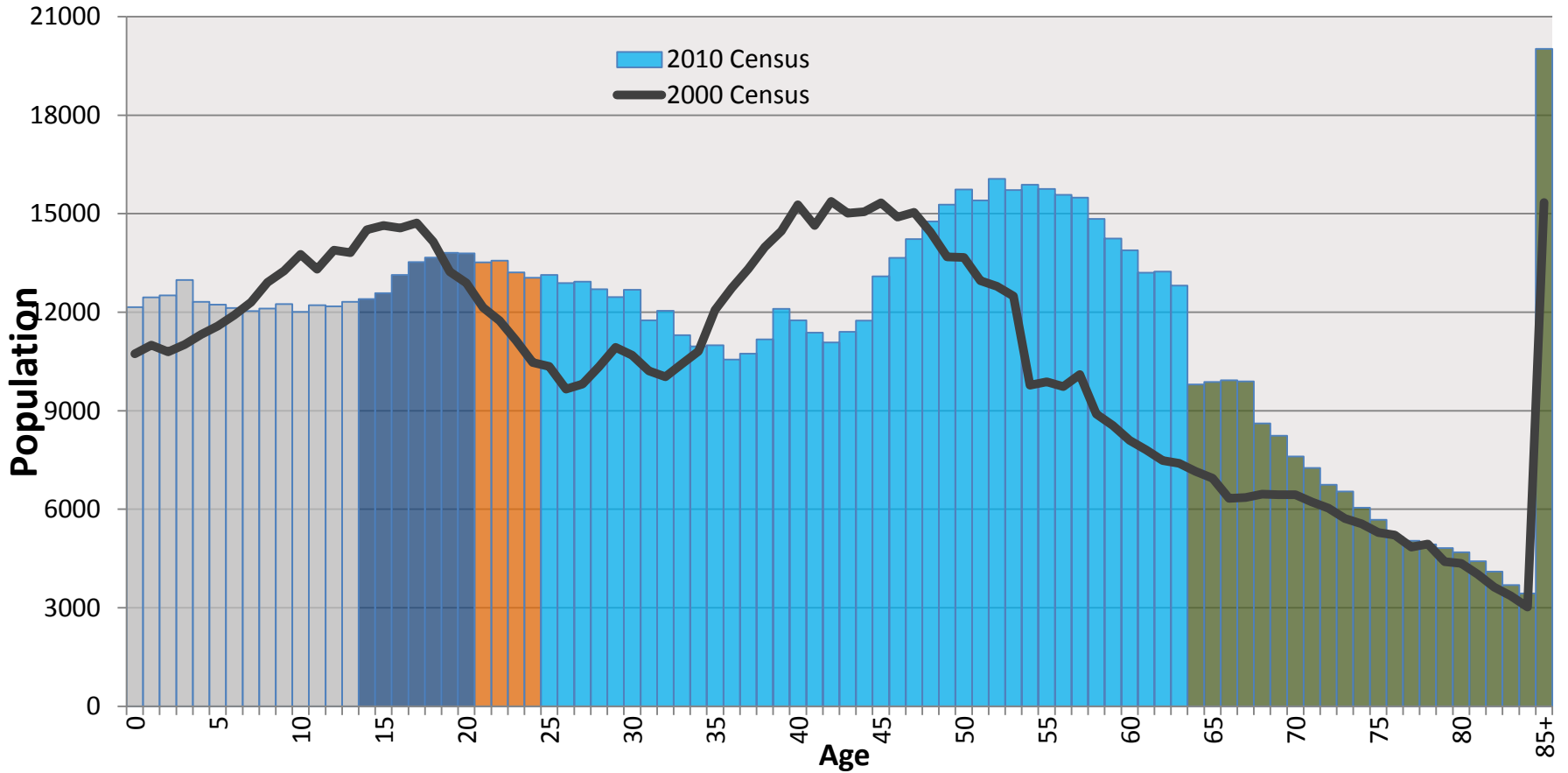
Data retrieved 9/11/2017

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# Montana Population by Age

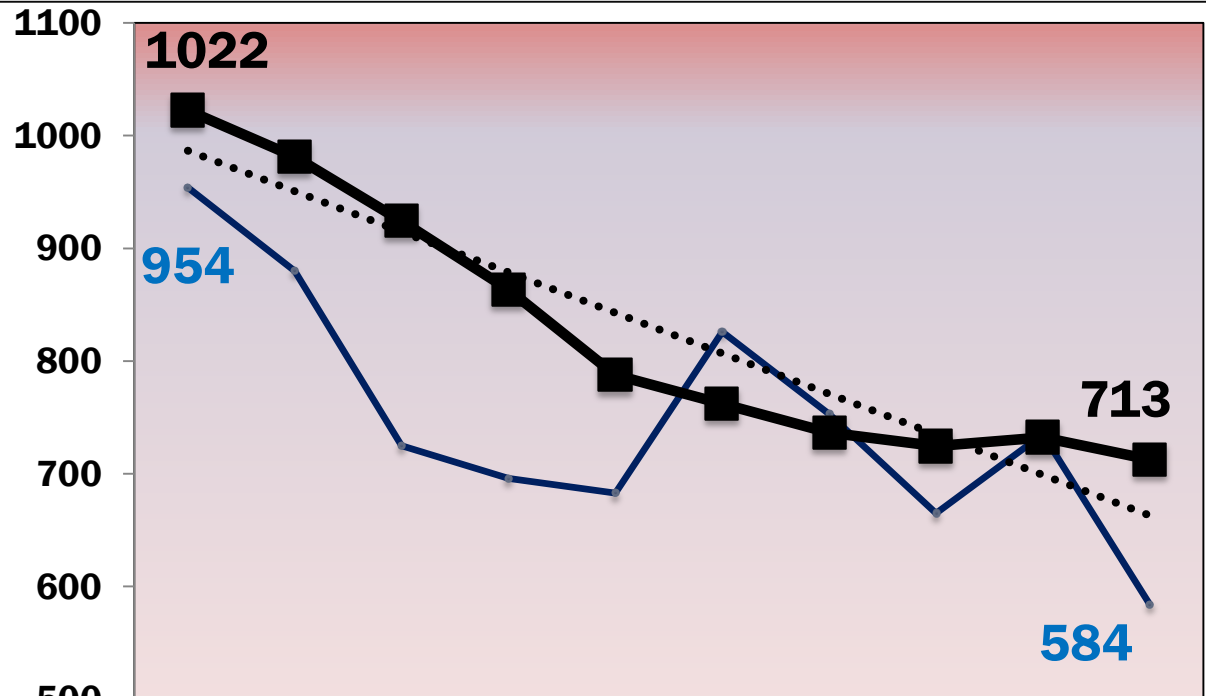
2000 & 2010 Census



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# Roadway Departure Fatalities & Serious Injuries



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>— Roadway Departure Crash - Fatalities and Serious Injuries</b>	954	880	725	696	683	826	753	665	735	584
<b>■ 5 Year Average</b>	1022	981	924	863	788	762	737	725	732	713
<b>Fatalities</b>	194	142	146	121	142	158	150	126	155	130
<b>Serious Injuries</b>	760	738	579	575	541	668	603	539	580	454

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# 3-Year Roadway Departure Severe Injury Trend -by Crash Factor

	2014	2015	2016
<b>Fatalities</b>	<b>126</b>	<b>155</b>	<b>130</b>
<b>Serious Injuries</b>	<b>539</b>	<b>580</b>	<b>454</b>
<b>Severe Injuries</b>	<b>665</b>	<b>735</b>	<b>584</b>
<b>Impaired Driver Involved (47%)</b>	<b>293</b>	<b>347</b>	<b>293</b>
<b>Unrestrained Occupant (44%)</b>	<b>260</b>	<b>331</b>	<b>276</b>
<b>Older Driver Involved (14%)</b>	<b>88</b>	<b>91</b>	<b>90</b>
<b>Young Driver Involved (16%)</b>	<b>105</b>	<b>132</b>	<b>87</b>
<b>Male Driver Involved (71%)</b>	<b>478</b>	<b>534</b>	<b>400</b>
<b>Female Driver Involved (34%)</b>	<b>235</b>	<b>226</b>	<b>217</b>
<b>Motorcyclist (11%)</b>	<b>77</b>	<b>80</b>	<b>61</b>

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# 3-Year Roadway Departure Severe Injury Trend -by Crash Factor (continued)

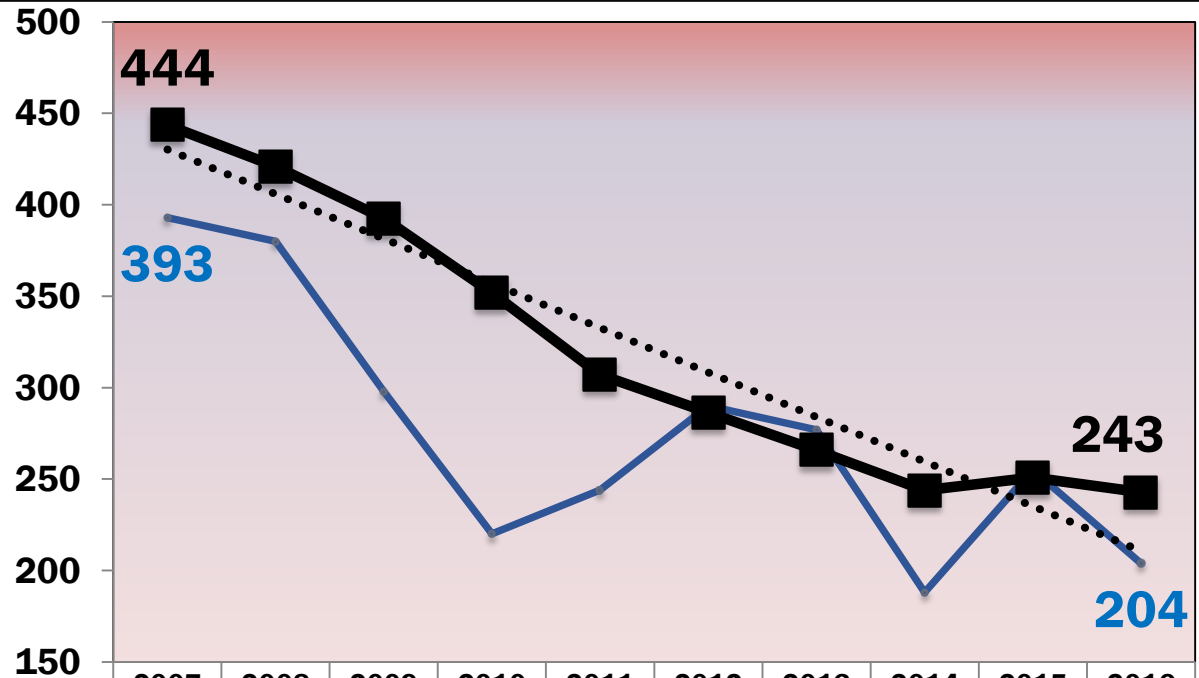
	2014	2015	2016
Fatalities	126	155	130
Serious Injuries	539	580	454
<b>Severe Injuries</b>	<b>665</b>	<b>735</b>	<b>584</b>
Rural Crash (92%)	608	678	542
Urban Crash (8%)	57	57	42
June, July, and August (37%)	233	280	214
Friday, Saturday, and Sunday (53%)	355	385	306
Nighttime (34%)	221	240	208
Shoulder Width less than 4 feet (45%)	315	335	251
More than 2 lane roadway (24%)	162	170	146
Speed as a Factor (25%)	168	202	122
Low Volume Roadway (AADT < 750) (39%)	270	287	226

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# Intersection Related Fatalities & Serious Injuries



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
— Intersection Crash - Fatalities and Serious Injuries	393	380	298	220	244	290	277	188	255	204
■ 5 Year Average	444	421	393	352	307	286	266	244	251	243
Fatalities	37	37	32	30	29	17	27	20	30	14
Serious Injuries	356	343	266	190	215	273	250	168	225	190

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

	2014	2015	2016
<b>Fatalities</b>	20	30	14
<b>Serious Injuries</b>	168	225	190
<b>Severe Injuries</b>	<b>188</b>	<b>255</b>	<b>204</b>
<b>Impaired Driver Involved (25%)</b>	<b>33</b>	<b>65</b>	<b>64</b>
<b>Unrestrained Occupant (18%)</b>	<b>29</b>	<b>46</b>	<b>44</b>
<b>Older Driver Involved (24%)</b>	<b>36</b>	<b>68</b>	<b>49</b>
<b>Young Driver Involved (22%)</b>	<b>36</b>	<b>55</b>	<b>51</b>
<b>Male Driver Involved (79%)</b>	<b>142</b>	<b>209</b>	<b>161</b>
<b>Female Driver Involved (55%)</b>	<b>104</b>	<b>144</b>	<b>105</b>
<b>Non-motorized Involved (13%)</b>	<b>26</b>	<b>28</b>	<b>32</b>
<b>Motorcyclist (13%)</b>	<b>30</b>	<b>32</b>	<b>23</b>

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# 3-Year Intersection Severe Injury Trend – by Crash Factor (continued)

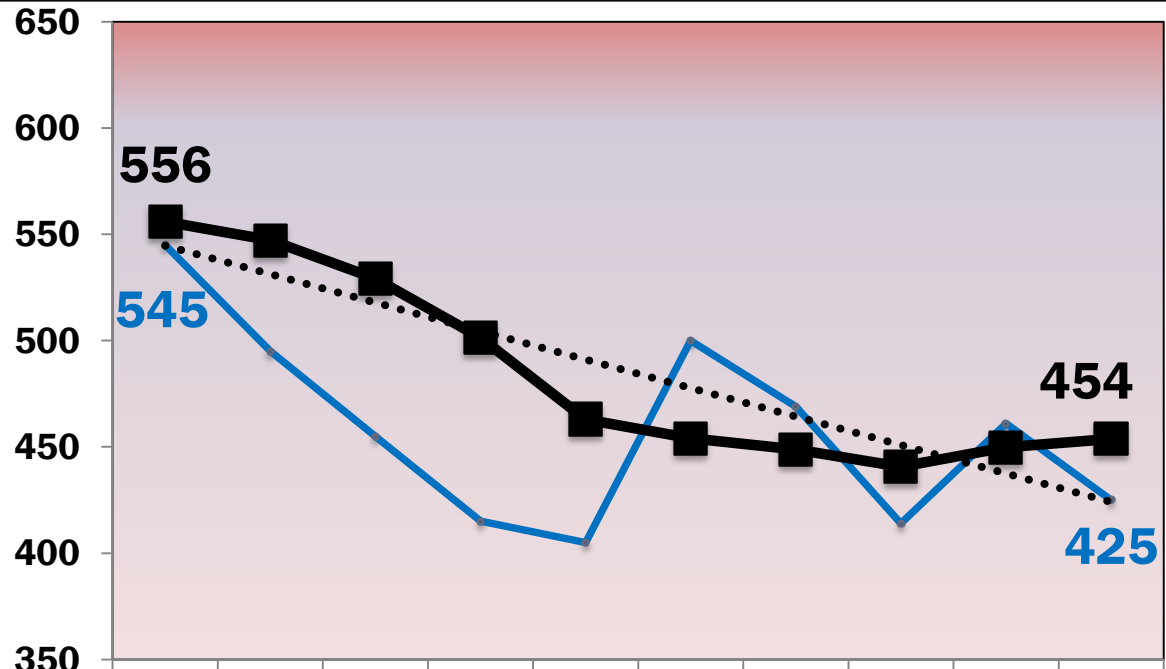
	2014	2015	2016
Fatalities	20	30	14
Serious Injuries	168	225	190
<b>Severe Injuries</b>	<b>188</b>	<b>255</b>	<b>204</b>
Rural Crash (51%)	101	127	103
Urban Crash (49%)	87	128	101
June, July, and August (32%)	57	91	61
Friday, Saturday, and Sunday (39%)	74	94	83
Nighttime (25%)	41	60	58
More than 2 lane roadway (23%)	48	64	37
Speed as a Factor (13%)	23	27	31
Low Volume Roadway (AADT < 750) (35%)	60	90	79

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# Impaired Driver Involved Fatalities & Serious Injuries



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
— Impaired Driver Involved - Fatalities and Serious Injuries	545	495	455	415	405	500	469	414	461	425
■ 5 Year Average	556	547	529	501	463	454	449	441	450	454
Fatalities	125	95	133	107	114	127	136	117	129	128
Serious Injuries	420	400	322	308	291	373	333	297	332	297

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

	2014	2015	2016
<b>Fatalities</b>	<b>117</b>	<b>129</b>	<b>128</b>
<b>Serious Injuries</b>	<b>297</b>	<b>332</b>	<b>297</b>
<b>Severe Injuries</b>	<b>414</b>	<b>461</b>	<b>425</b>
<b>Roadway Departure Crash (72%)</b>	<b>293</b>	<b>347</b>	<b>293</b>
<b>Intersection Crash (12%)</b>	<b>33</b>	<b>65</b>	<b>64</b>
<b>Unrestrained Occupant (54%)</b>	<b>215</b>	<b>250</b>	<b>242</b>
<b>Older Driver Involved (6%)</b>	<b>27</b>	<b>26</b>	<b>24</b>
<b>Young Driver Involved (11%)</b>	<b>34</b>	<b>61</b>	<b>44</b>
<b>Impaired Motorcyclist Involved (10%)</b>	<b>46</b>	<b>46</b>	<b>36</b>
<b>Male Driver Involved (73%)</b>	<b>306</b>	<b>349</b>	<b>300</b>
<b>Female Driver Involved (26%)</b>	<b>107</b>	<b>110</b>	<b>125</b>

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# 3-Year Impaired Driver Involved Severe Injury Trend -by Crash Factor (continued)

	2014	2015	2016
<b>Fatalities</b>	<b>117</b>	<b>129</b>	<b>128</b>
<b>Serious Injuries</b>	<b>297</b>	<b>332</b>	<b>297</b>
<b>Severe Injuries</b>	<b>414</b>	<b>461</b>	<b>425</b>
<b>Rural Crash (89%)</b>	<b>368</b>	<b>405</b>	<b>378</b>
<b>Urban Crash (11%)</b>	<b>46</b>	<b>56</b>	<b>47</b>
<b>June, July, and August (35%)</b>	<b>153</b>	<b>164</b>	<b>135</b>
<b>Friday, Saturday, and Sunday (57%)</b>	<b>246</b>	<b>263</b>	<b>235</b>
<b>Nighttime (48%)</b>	<b>211</b>	<b>217</b>	<b>193</b>
<b>Shoulder Width less than 4 feet (47%)</b>	<b>204</b>	<b>229</b>	<b>182</b>
<b>More than 2 lane roadway (19%)</b>	<b>82</b>	<b>78</b>	<b>90</b>
<b>Speed as a Factor (24%)</b>	<b>89</b>	<b>125</b>	<b>99</b>
<b>Low Volume Roadway (AADT &lt; 750) (41%)</b>	<b>156</b>	<b>196</b>	<b>182</b>

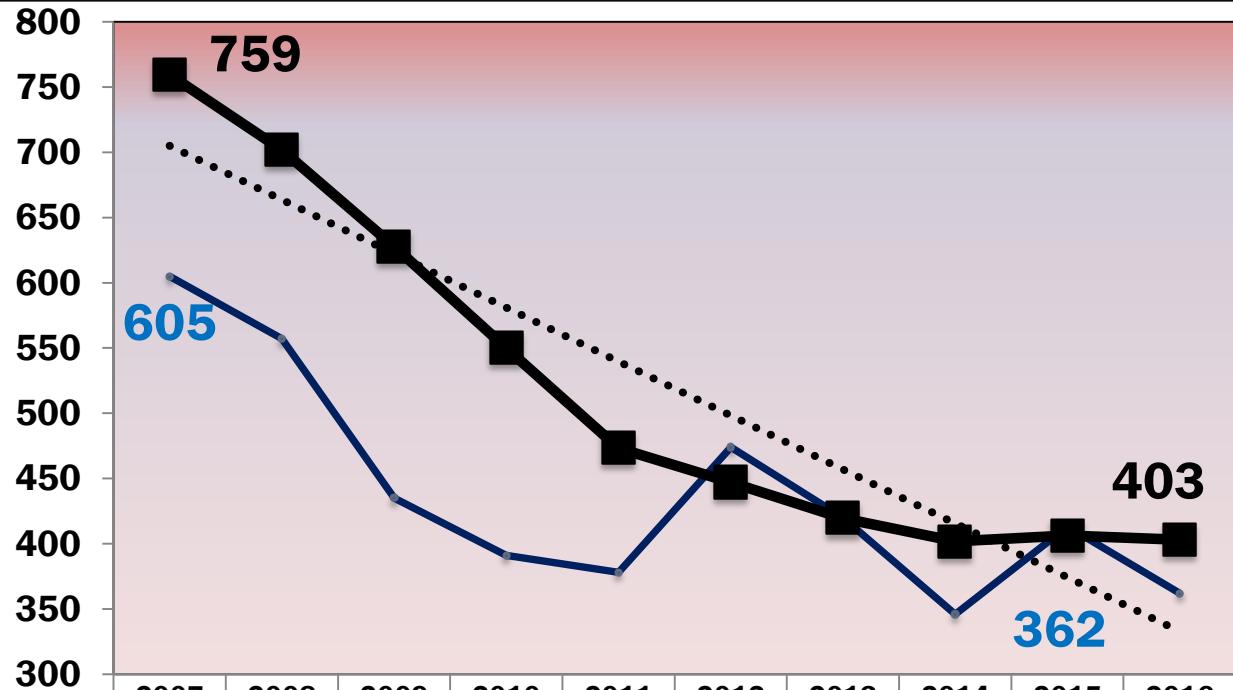
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# Unrestrained Occupants Fatalities & Serious Injuries



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>— No Seatbelt or Improper Use - Fatalities and Serious Injuries</b>	605	557	435	391	378	474	420	346	413	362
<b>■ 5 Year Average</b>	759	702	628	550	473	447	420	402	406	403
<b>Fatalities</b>	154	121	107	90	110	114	105	100	118	95
<b>Serious Injuries</b>	451	436	328	301	268	360	315	246	295	267

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

	2014	2015	2016
<b>Fatalities</b>	100	118	95
<b>Serious Injuries</b>	246	295	267
<b>Severe Injuries</b>	<b>346</b>	<b>413</b>	<b>362</b>
<b>Roadway Departure Crash (77%)</b>	<b>260</b>	<b>331</b>	<b>276</b>
<b>Intersection Crash (11%)</b>	<b>29</b>	<b>46</b>	<b>44</b>
<b>Impaired Driver Involved (63%)</b>	<b>215</b>	<b>250</b>	<b>242</b>
<b>Older Driver Involved (11%)</b>	<b>42</b>	<b>44</b>	<b>41</b>
<b>Young Driver Involved (19%)</b>	<b>57</b>	<b>94</b>	<b>65</b>
<b>Male Driver Involved (72%)</b>	<b>253</b>	<b>298</b>	<b>254</b>
<b>Female Driver Involved (36%)</b>	<b>123</b>	<b>144</b>	<b>141</b>

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

(continued)

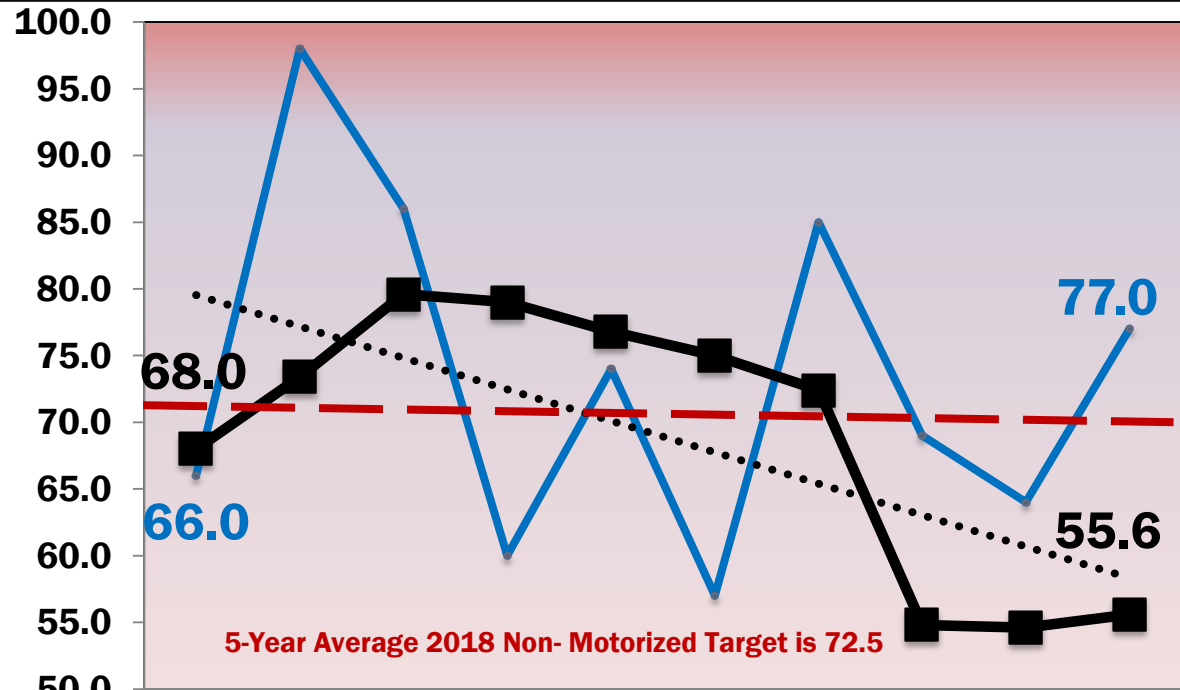
	2014	2015	2016
<b>Fatalities</b>	<b>100</b>	<b>118</b>	<b>95</b>
<b>Serious Injuries</b>	<b>246</b>	<b>295</b>	<b>267</b>
<b>Severe Injuries</b>	<b>346</b>	<b>413</b>	<b>362</b>
<b>Rural Crash (92%)</b>	<b>310</b>	<b>375</b>	<b>344</b>
<b>Urban Crash (8%)</b>	<b>36</b>	<b>38</b>	<b>18</b>
<b>June, July, and August (31%)</b>	<b>121</b>	<b>132</b>	<b>97</b>
<b>Friday, Saturday, and Sunday (51%)</b>	<b>177</b>	<b>210</b>	<b>184</b>
<b>Nighttime (45%)</b>	<b>162</b>	<b>177</b>	<b>161</b>
<b>Shoulder Width less than 4 feet (48%)</b>	<b>169</b>	<b>208</b>	<b>158</b>
<b>More than 2 lane roadway (20%)</b>	<b>78</b>	<b>62</b>	<b>81</b>
<b>Speed as a Factor (24%)</b>	<b>86</b>	<b>115</b>	<b>73</b>
<b>Low Volume Roadway (AADT &lt; 750) (43%)</b>	<b>144</b>	<b>184</b>	<b>152</b>

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# Non-Motorized Fatalities & Serious Injuries (Pedestrians & Bicyclists)



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
— Non-Motorist Fatalities and Serious Injuries	66.0	98.0	86.0	60.0	74.0	57.0	85.0	69.0	64.0	77.0
■ 5 Year Average	68.0	73.4	79.6	79.0	76.8	75.0	72.4	54.8	54.6	55.6
Fatalities	19.0	14.0	16.0	10.0	16.0	9.0	24.0	12.0	15.0	14.0
Serious Injuries	47.0	84.0	70.0	50.0	58.0	48.0	61.0	57.0	49.0	63.0

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# Non-Motorized Severe Injury Trend (Pedestrians & Bicyclists)

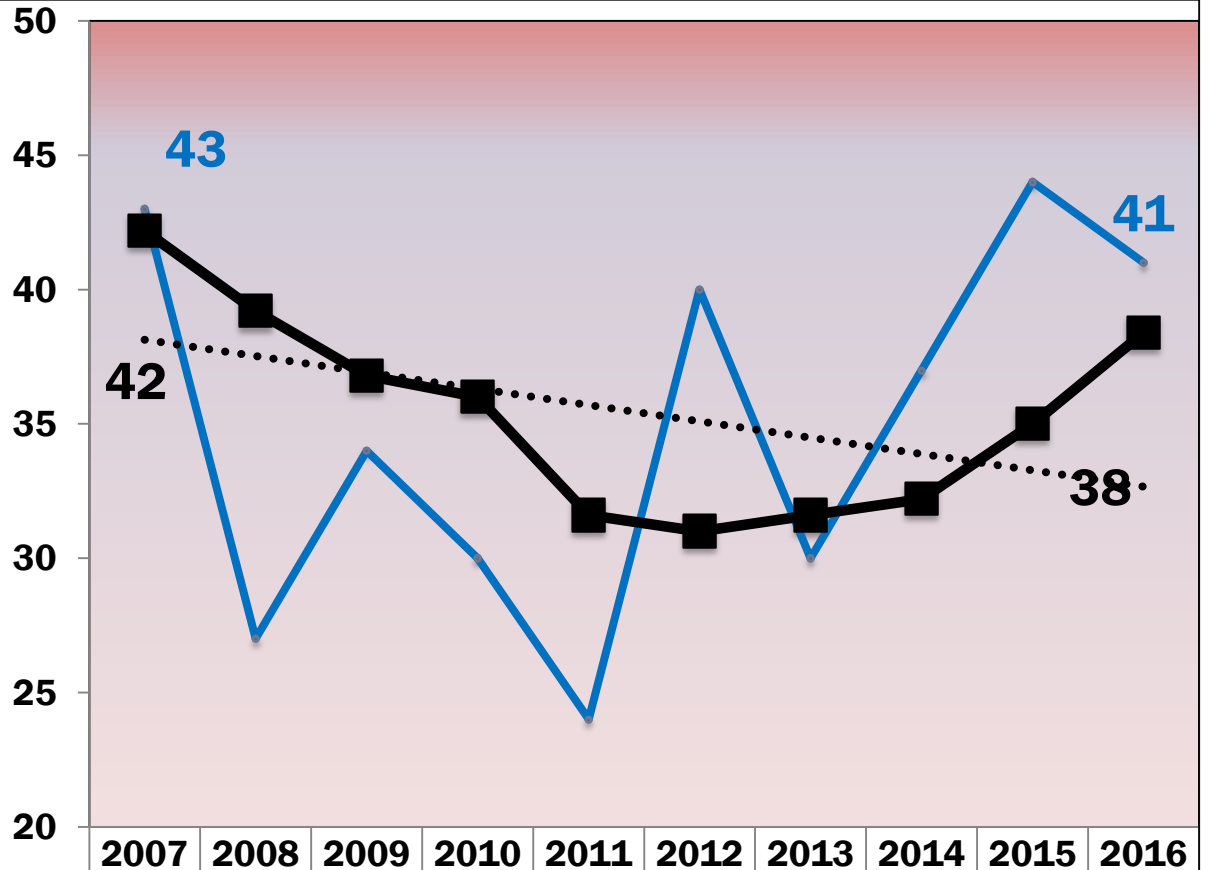
	2014	2015	2016
<b>Fatalities</b>	<b>12</b>	<b>15</b>	<b>14</b>
<b>Serious Injuries</b>	<b>57</b>	<b>49</b>	<b>63</b>
<b>Severe Injuries</b>	<b>69</b>	<b>64</b>	<b>77</b>
<b>Intersection Crash (41%)</b>	<b>26</b>	<b>28</b>	<b>32</b>
<b>Impaired Driver Involved (15%)</b>	<b>11</b>	<b>9</b>	<b>11</b>
<b>Urban Crash (64%)</b>	<b>42</b>	<b>43</b>	<b>49</b>
<b>June, July, and August (36%)</b>	<b>26</b>	<b>22</b>	<b>28</b>
<b>Nighttime (35%)</b>	<b>18</b>	<b>25</b>	<b>30</b>
<b>Low Volume Roadway (AADT &lt; 750) (34%)</b>	<b>22</b>	<b>19</b>	<b>30</b>
<b>Friday, Saturday, and Sunday (44%)</b>	<b>29</b>	<b>28</b>	<b>36</b>

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# Native American Fatalities



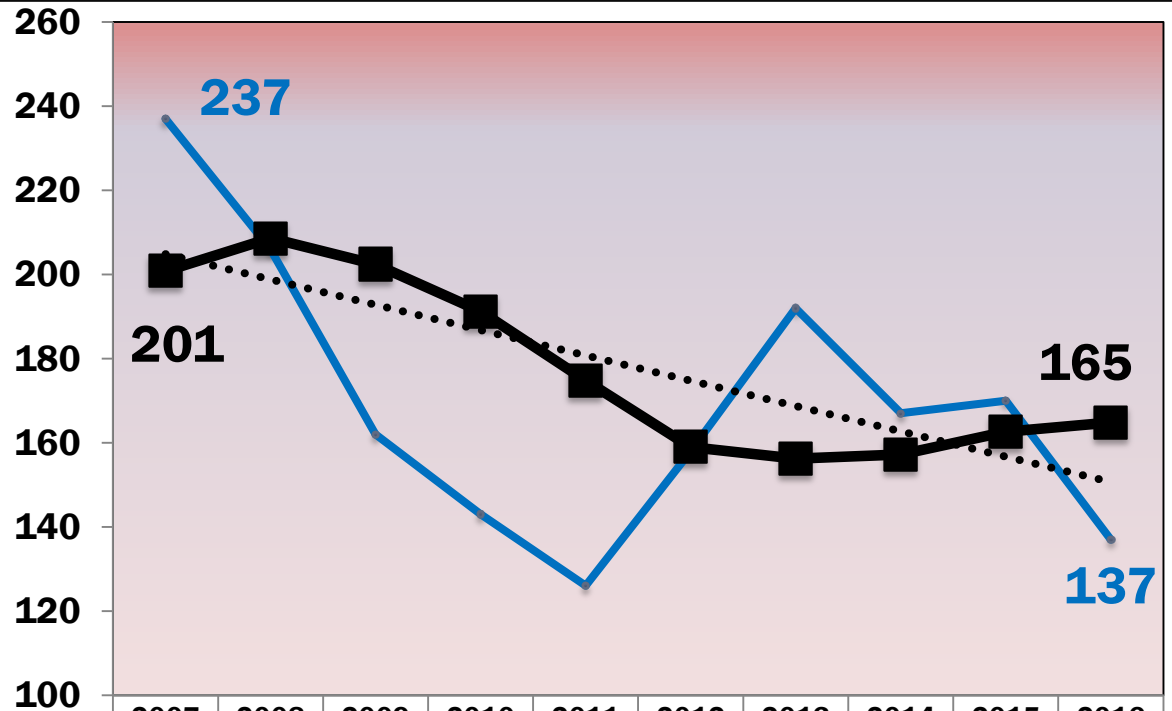
	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Native American Fatalities (FARS)</b>	43	27	34	30	24	40	30	37	44	41
<b>5 Year Average</b>	42	39	37	36	32	31	32	32	35	38

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# Motorcyclist Fatalities & Serious Injuries



	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Motorcyclist - Fatalities and Serious Injuries</b>	237	206	162	143	126	158	192	167	170	137
<b>5 Year Average</b>	201	209	202	191	175	159	156	157	163	165
<b>Fatalities</b>	36	36	26	25	20	30	34	23	25	17
<b>Serious Injuries</b>	201	170	136	118	106	128	158	144	145	120

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# 3-Year Motorcyclist Severe Injury Trends – by Crash Factor

	2014	2015	2016
<b>Fatalities</b>	<b>23</b>	<b>25</b>	<b>17</b>
<b>Serious Injuries</b>	<b>144</b>	<b>145</b>	<b>120</b>
<b>Severe Injuries</b>	<b>167</b>	<b>170</b>	<b>137</b>
<b>Roadway Departure Crash (46%)</b>	<b>77</b>	<b>80</b>	<b>61</b>
<b>Intersection Crash (18%)</b>	<b>30</b>	<b>32</b>	<b>23</b>
<b>Older Driver Involved (13%)</b>	<b>21</b>	<b>18</b>	<b>21</b>
<b>Young Driver Involved (6%)</b>	<b>11</b>	<b>8</b>	<b>10</b>
<b>Impaired Motorcyclist Involved (27%)</b>	<b>46</b>	<b>46</b>	<b>36</b>
<b>Motorcyclist- No Helmet (44%)</b>	<b>74</b>	<b>79</b>	<b>55</b>
<b>Rural Crash (79%)</b>	<b>133</b>	<b>129</b>	<b>111</b>
<b>Speed as a Factor (18%)</b>	<b>30</b>	<b>27</b>	<b>26</b>

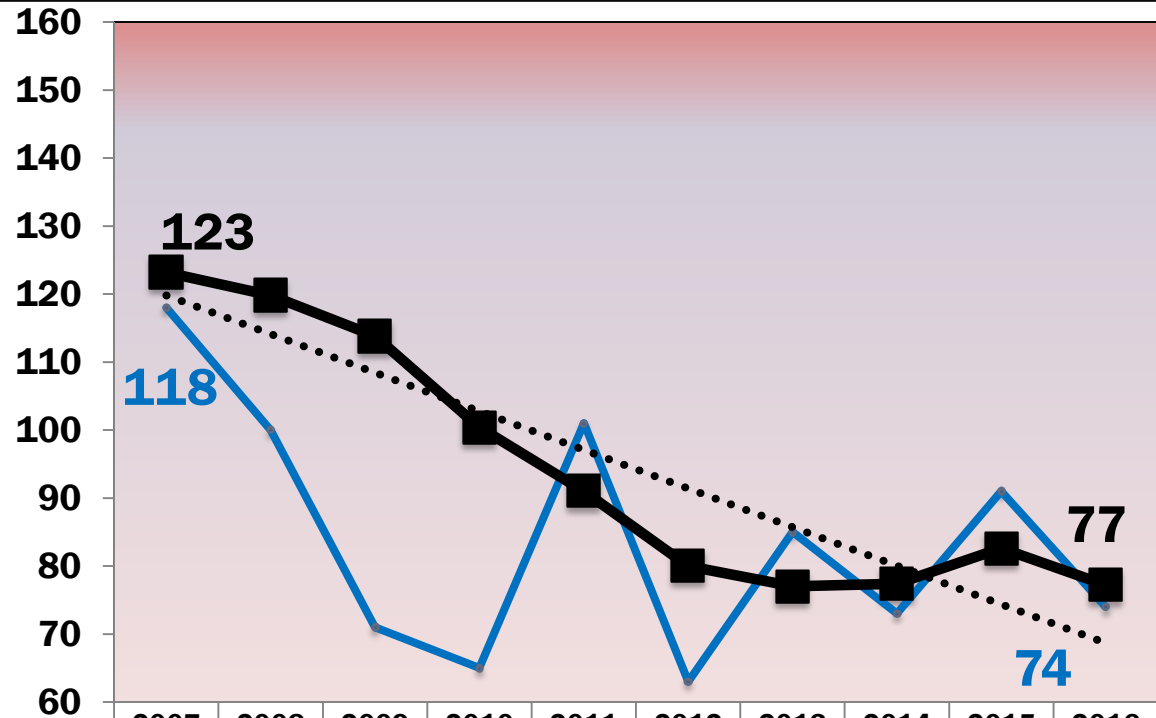
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# Large Vehicle Involved Fatalities & Serious Injuries



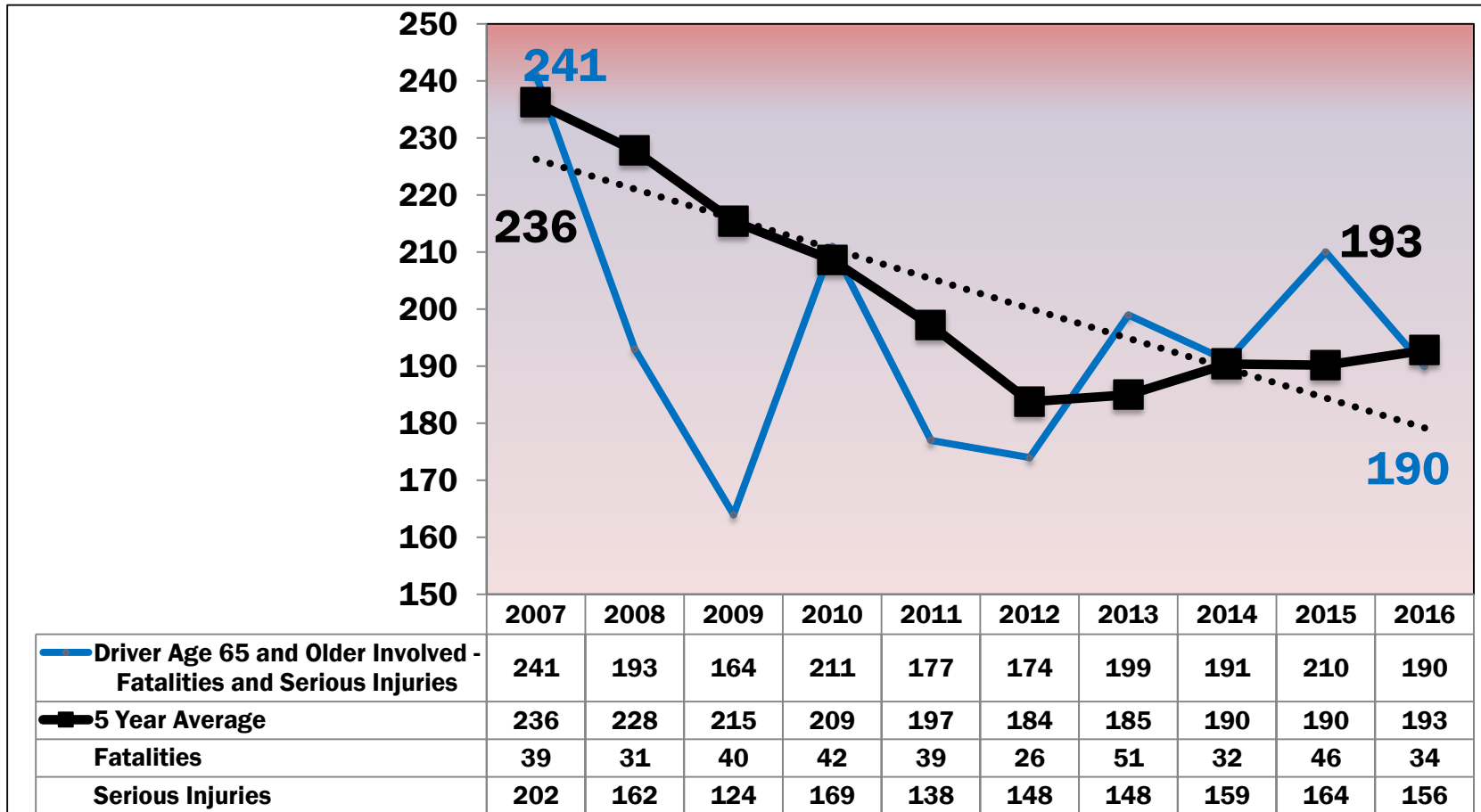
— Large Vehicle - Fatalities and Serious Injuries	118	100	71	65	101	63	85	73	91	74
■ 5 Year Average	123	120	114	100	91	80	77	77	83	77
Fatalities	35	25	27	18	32	11	21	14	22	22
Serious Injuries	83	75	44	47	69	52	64	59	69	52

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# Older Driver Involved Fatalities & Serious Injuries

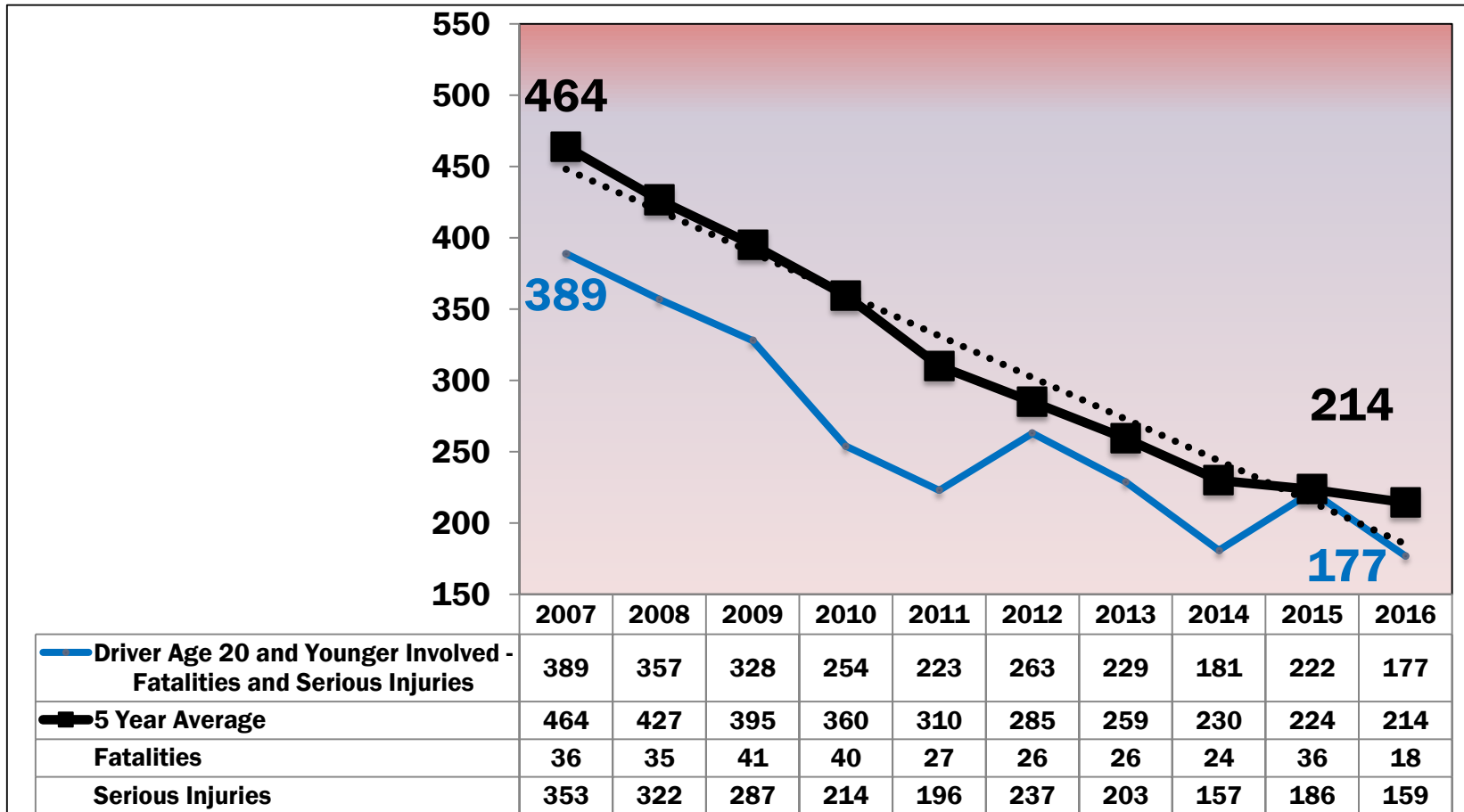


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# Young Driver Involved Fatalities & Serious Injuries



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# SOBER DRIVERS SAVE LIVES

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<h3>Safer Roads</h3> <p>Ensuring that Montana's state roads and highways are built and maintained with safety as the first concern.</p> <p><a href="#">Explore this</a></p>	<h3>DRIVE SAFELY</h3> <p>There were 190 fatalities in 2016. There have been <b>138</b> fatalities on Montana highways in 2017 compared to <b>150</b> fatalities for this same time in 2016.</p> <p><a href="#">Explore this</a></p>	<h3>Safer People</h3> <p>We can't do this without the complete support of every Montanan. Together, we can save lives.</p> <p><a href="#">Explore this</a></p>
<h3>Plans &amp; Programs</h3> <p>The resources our partners need as we aim Montana toward zero deaths and injuries on our highways.</p> <p><a href="#">Explore this</a></p>	<h3>Crash Data</h3> <p>Crash data is available by county, city, and reservation.</p> <p><a href="#">Explore this</a></p>	<h3>Grants</h3> <p>MDT administers federal grant monies for safety programs aimed at reducing deaths, injuries, and property losses resulting from traffic crashes.</p> <p><a href="#">Explore this</a></p>

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

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