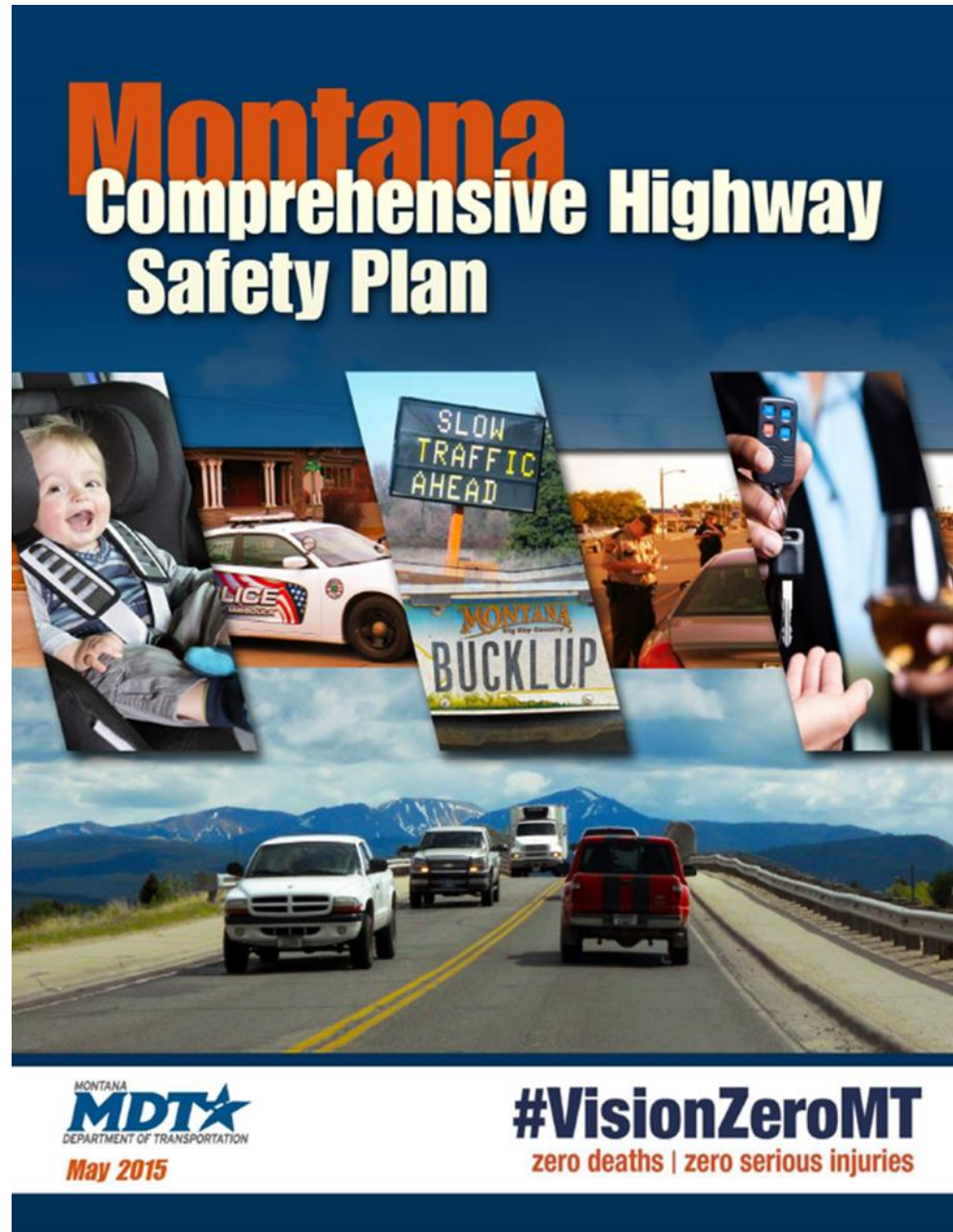


Montana Crash Data Summary- 2017

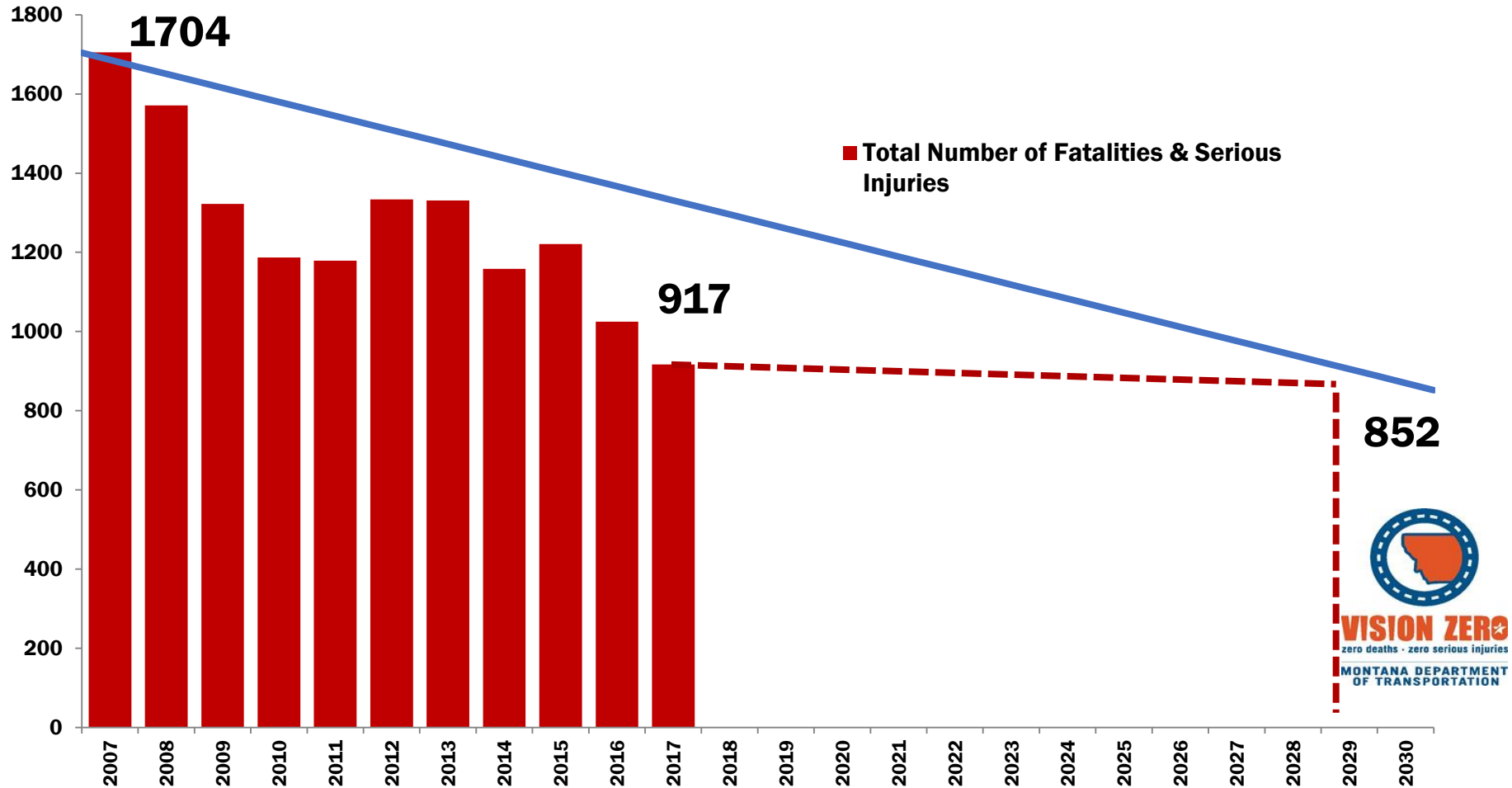
2018 Annual Transportation
Safety Planning Meeting

Great Northern Hotel
Helena, MT
October 10, 2018

Montana Department of
Transportation



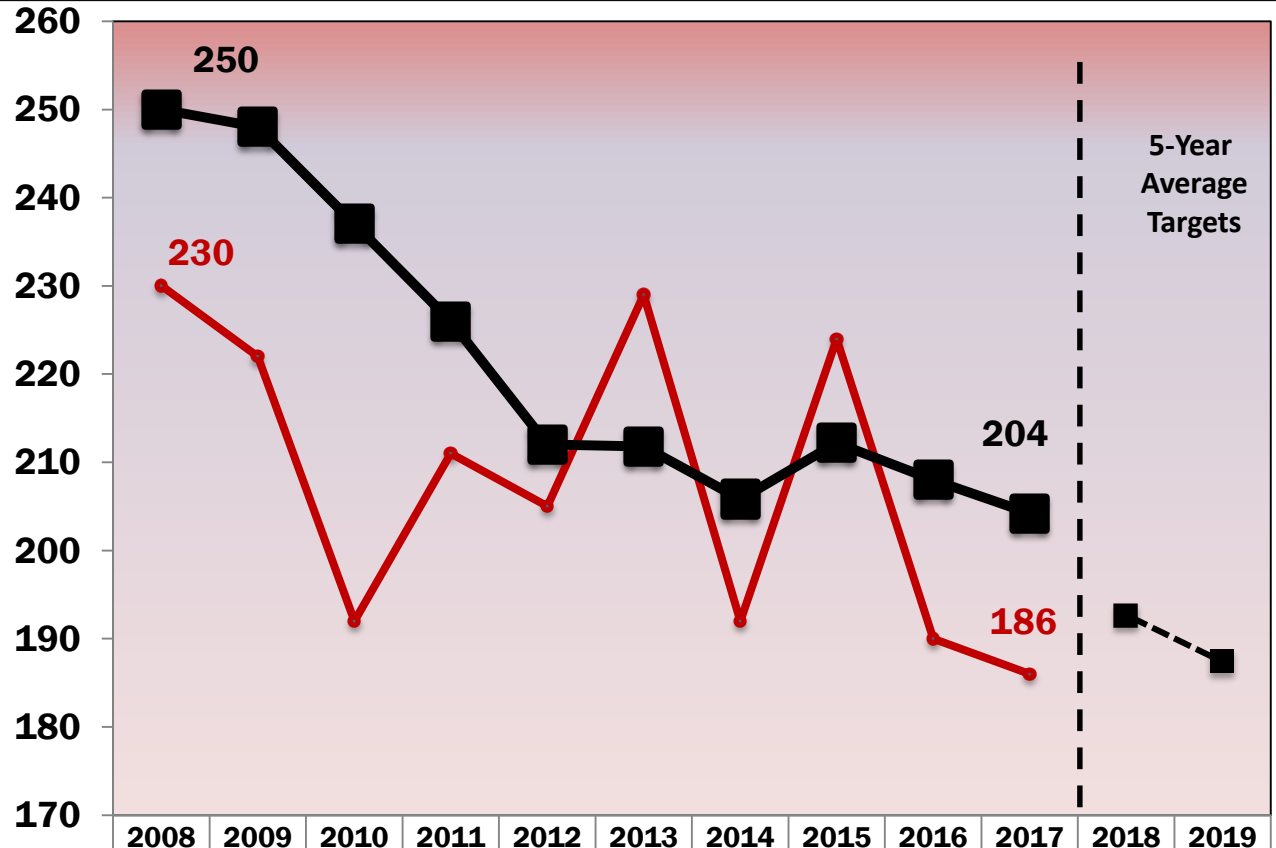
CHSP Interim Safety Goal



Montana Comprehensive Highway Safety Plan
2015-2020

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CHSP Safety Targets: Reduction in the Number of Fatalities

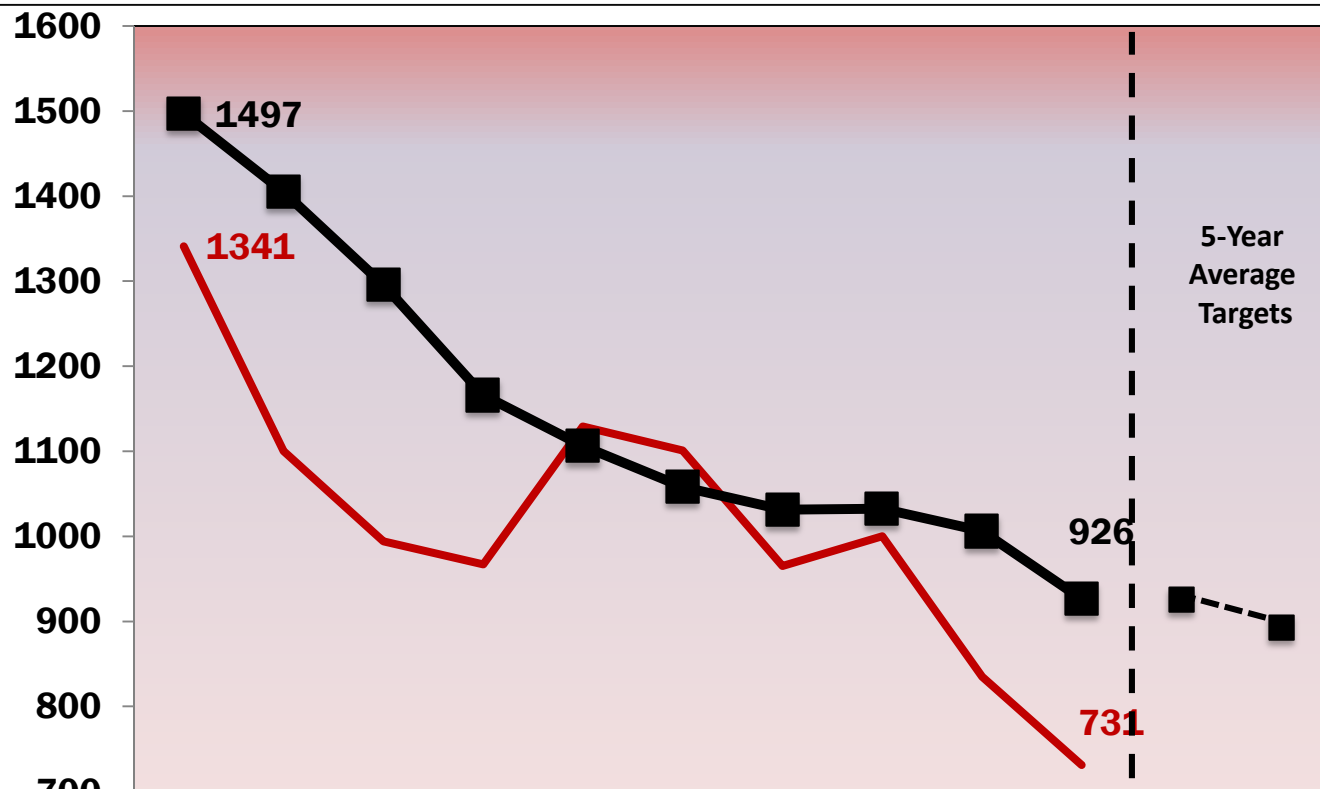


All Crash - Fatality	230	222	192	211	205	229	192	224	190	186		
5 Year Average	250	248	237	226	212	212	206	212	208	204		
5-year Average 2018 Serious Injury Target											193	
5-Year Average 2019 Serious Injury Target												187

Montana Comprehensive Highway Safety Plan
2015-2020

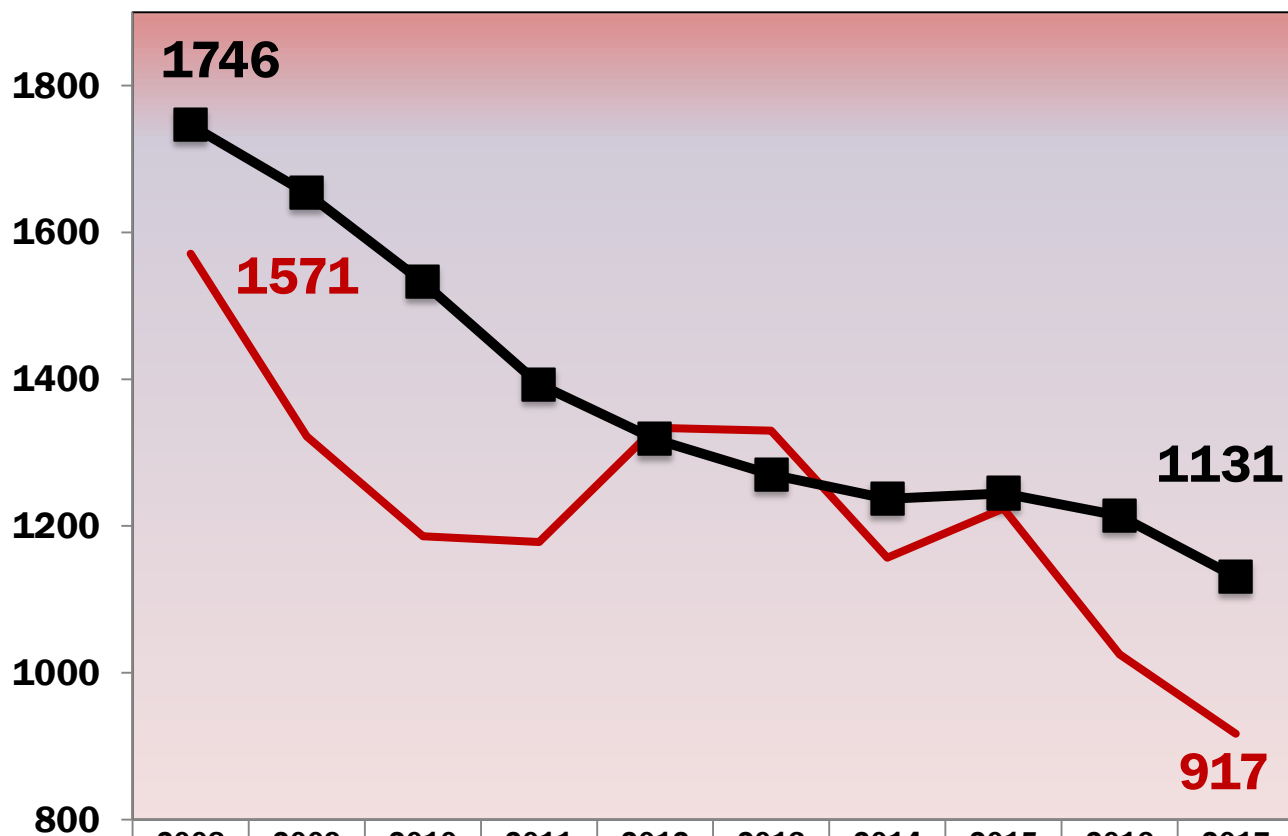
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CHSP Safety Targets: Reduction in the Number of Serious Injuries



	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

Total Fatalities & Serious Injuries



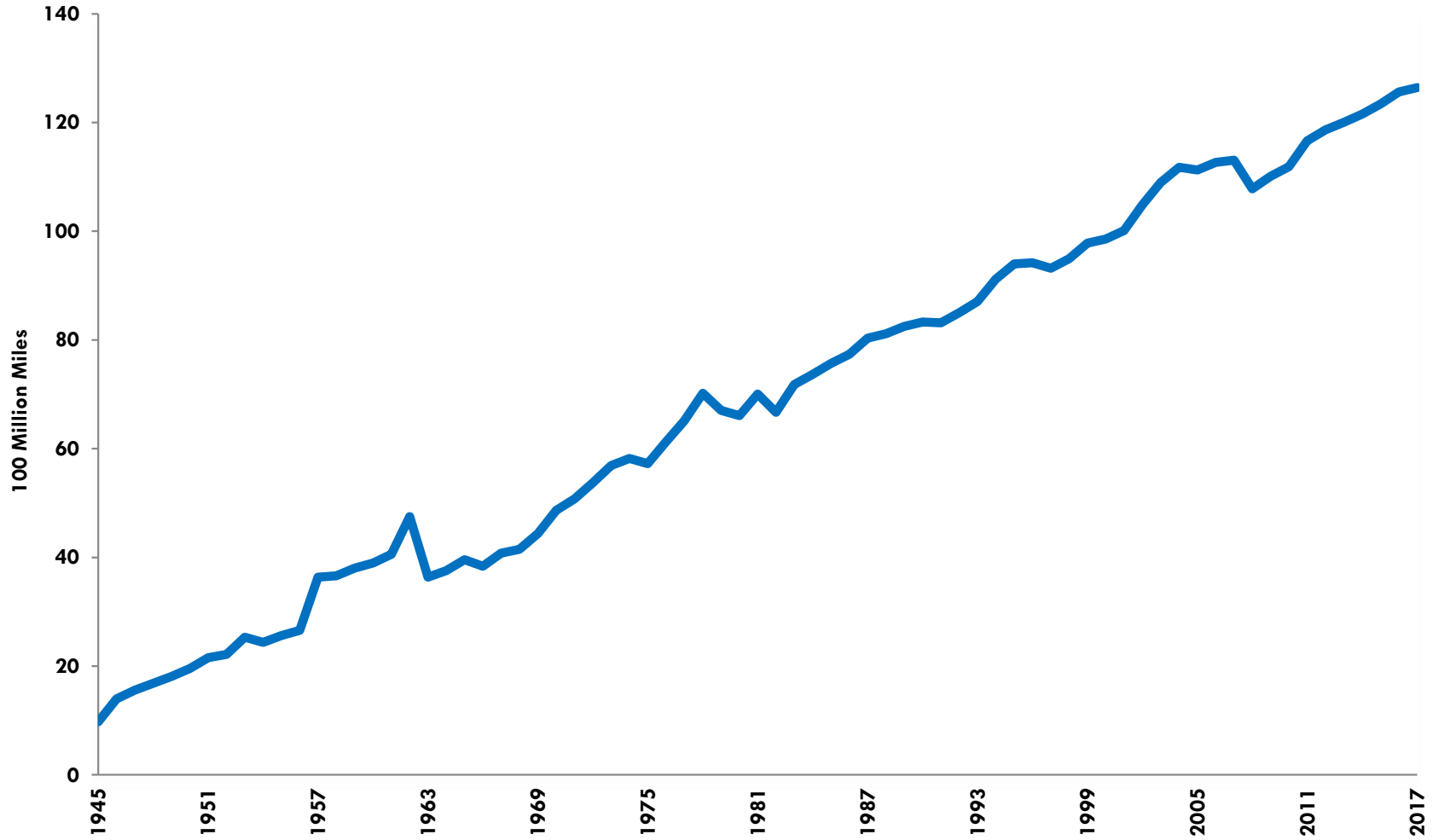
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
All Crash - Fatalities and Serious Injuries	1571	1322	1186	1178	1334	1330	1157	1224	1025	917
5 Year Average	1746	1654	1532	1393	1318	1270	1237	1245	1214	1131
Fatalities	230	222	192	211	205	229	192	224	190	186
Serious Injuries	1341	1100	994	967	1129	1101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

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MT VMT Trends

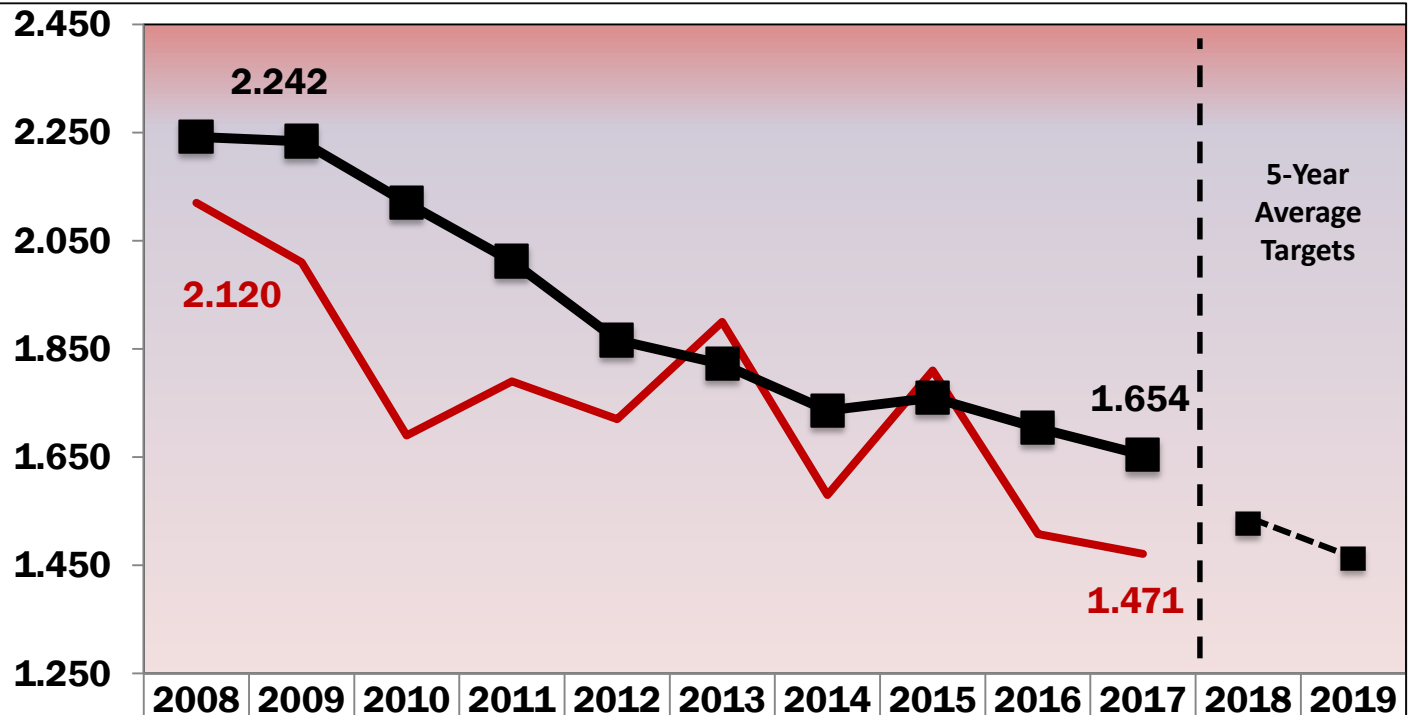
1945-2017



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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

Montana Comprehensive Highway Safety Plan
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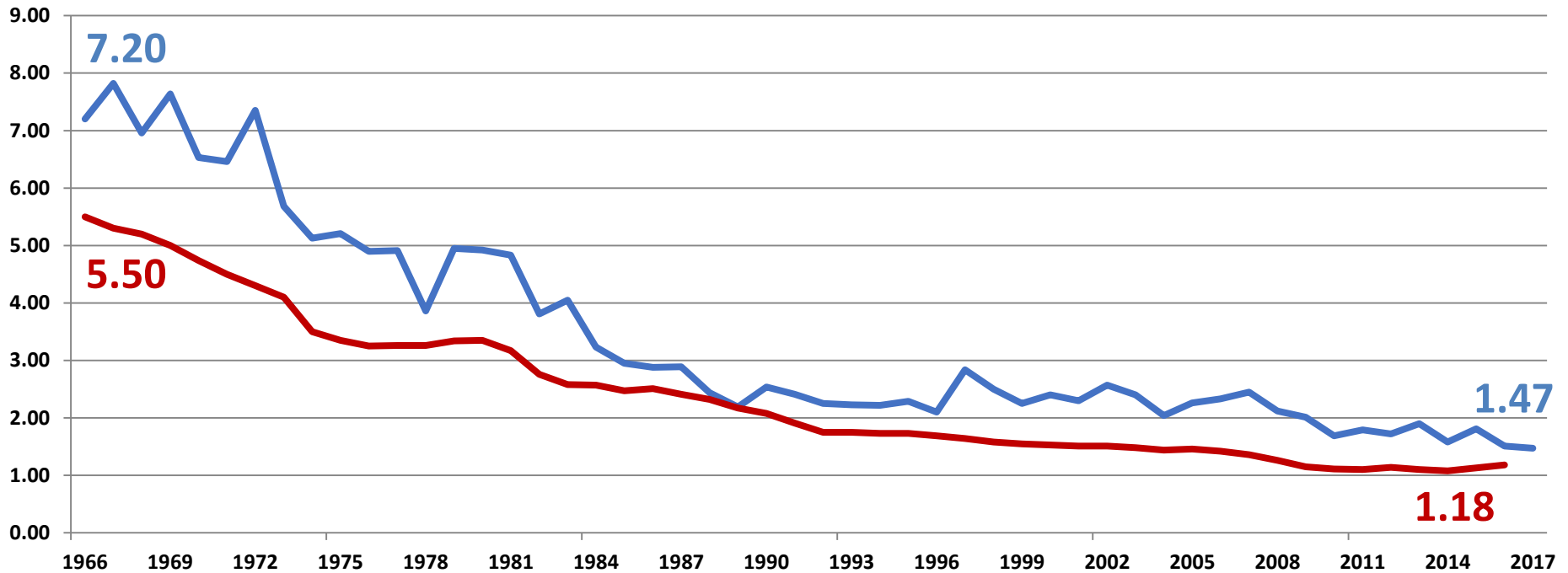
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Fatality Rates – MT vs. US

Fatality Rates (1966-2017)

— Montana

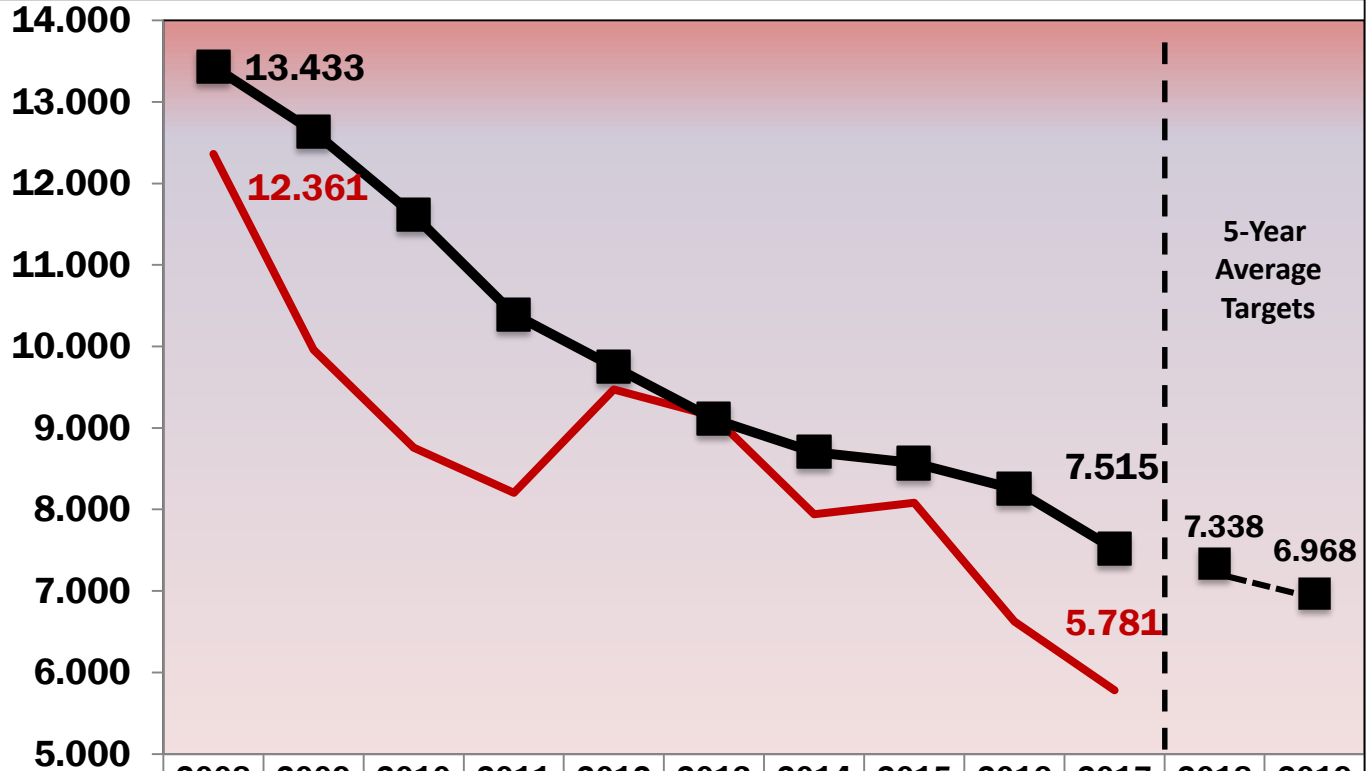
— USA



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2015-2020

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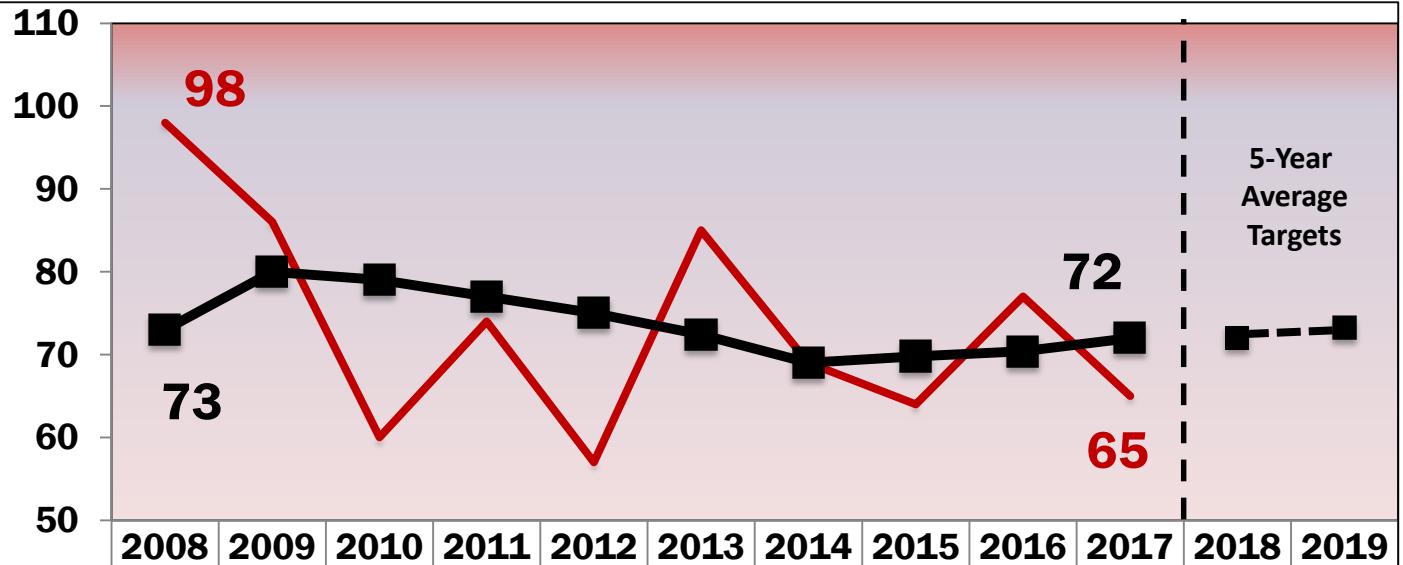
CHSP Safety Targets: Reduction in the Serious Injury Rate



— Serious Injury Rate	12.361	9.959	8.758	8.203	9.473	9.143	7.941	8.080	6.627	5.781		
■ 5 Year Average	13.433	12.638	11.612	10.393	9.751	9.107	8.704	8.568	8.253	7.515		
■ 5-year Average 2018 Serious Injury Target												7.338
■ 5-Year Average 2019 Serious Injury Target												6.968

CHSP Safety Targets

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

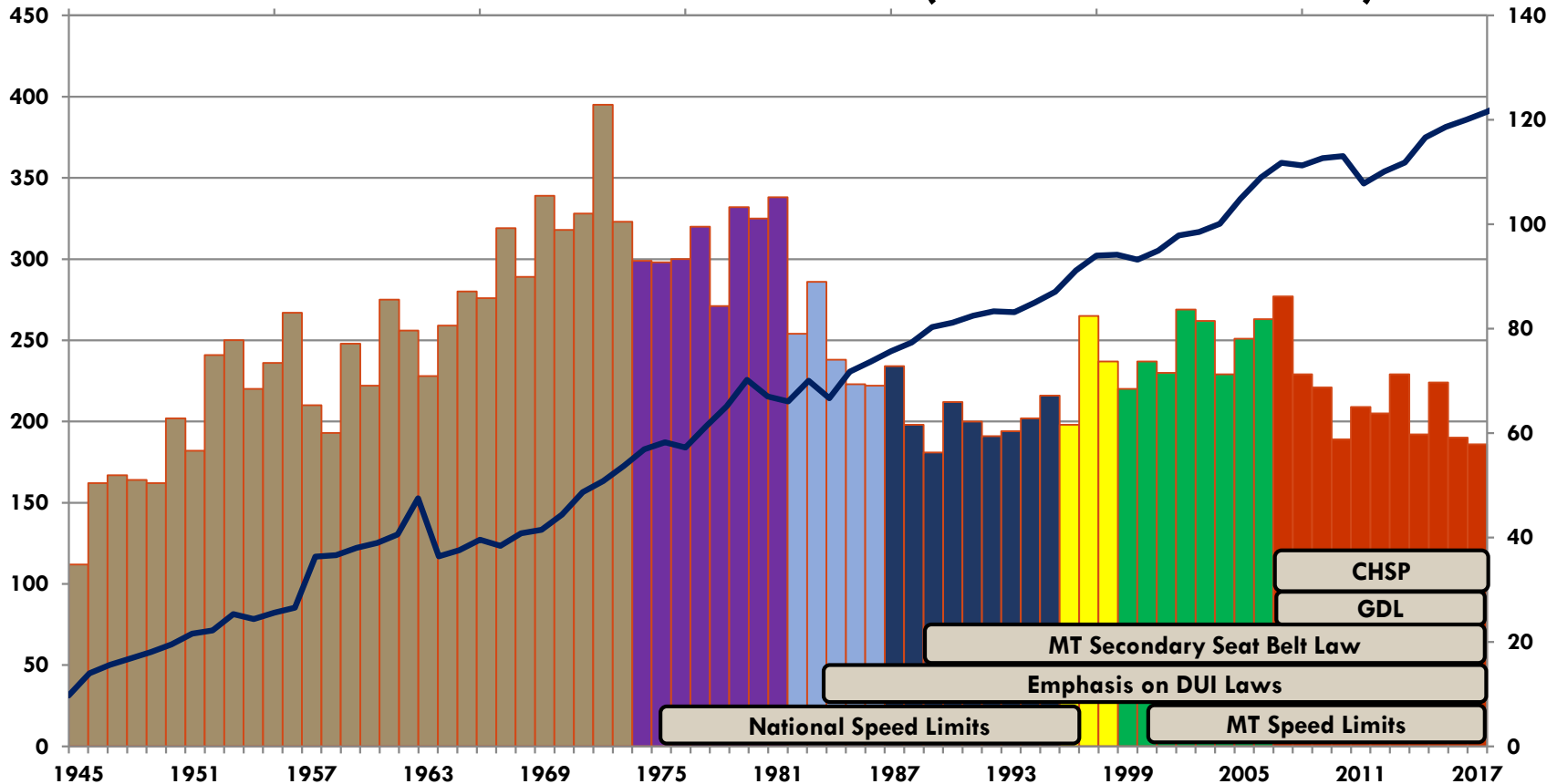


— Non-Motorist Fatalities and Serious Injuries	98	86	60	74	57	85	69	64	77	65		
■ 5 Year Average	73	80	79	77	75	72	69	70	70	72		
Fatalities	14	16	10	16	9	24	12	15	14	15		
Serious Injuries	84	70	50	58	48	61	57	49	63	50		
■ 5-year Average 2018 Non-Motorized F & SI Target											72	
■ 5-Year Average 2019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

Fatalities & Legislative Actions

1945-2017

■ Fatalities
 — VMT (100 Million Miles)



Montana Comprehensive Highway Safety Plan
 2015-2020

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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

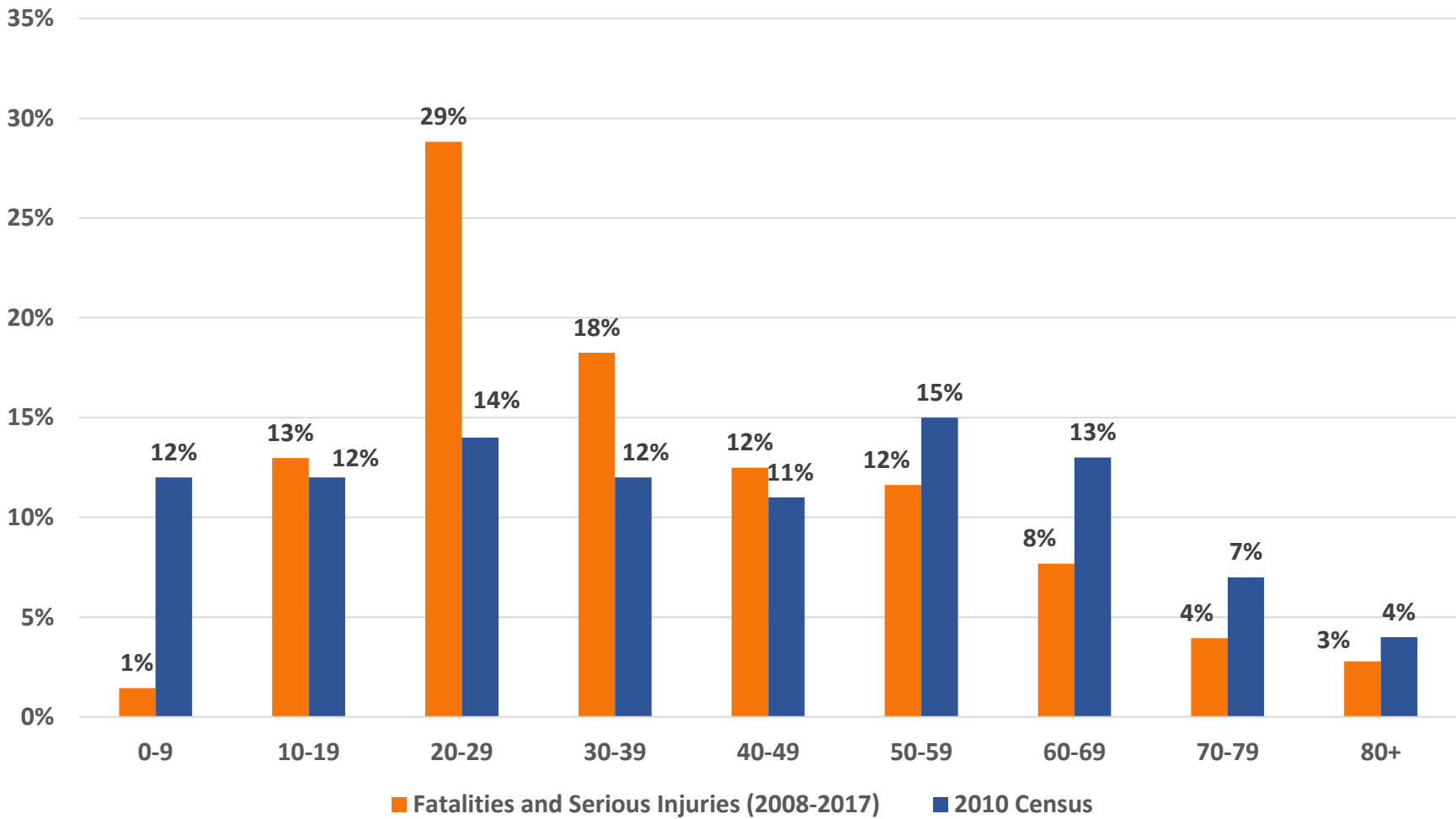
3-Year Severe Injury Trend

-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

Fatalities & Serious Injuries by Age

2008-2017

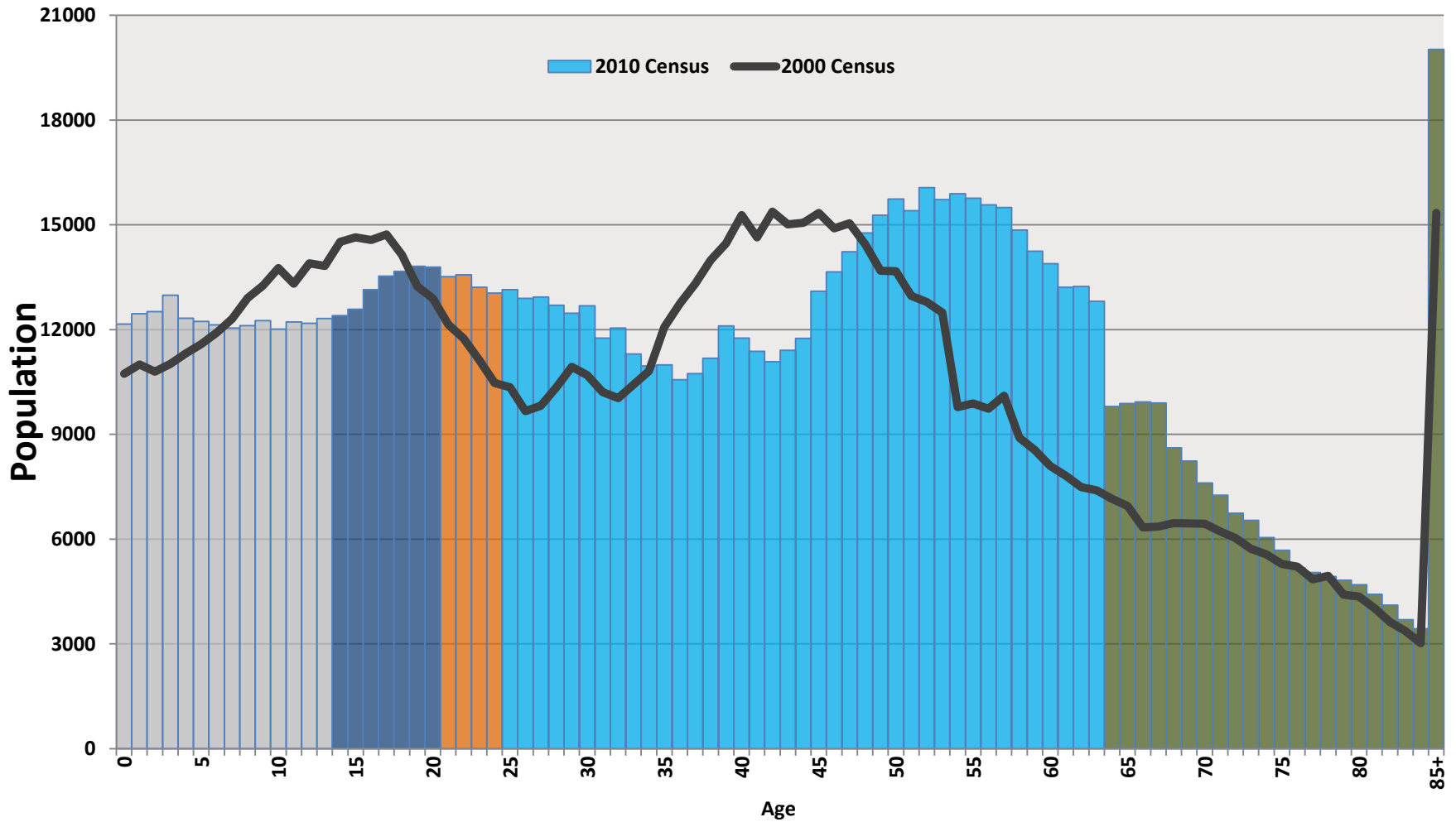


Montana Comprehensive Highway Safety Plan
2015-2020

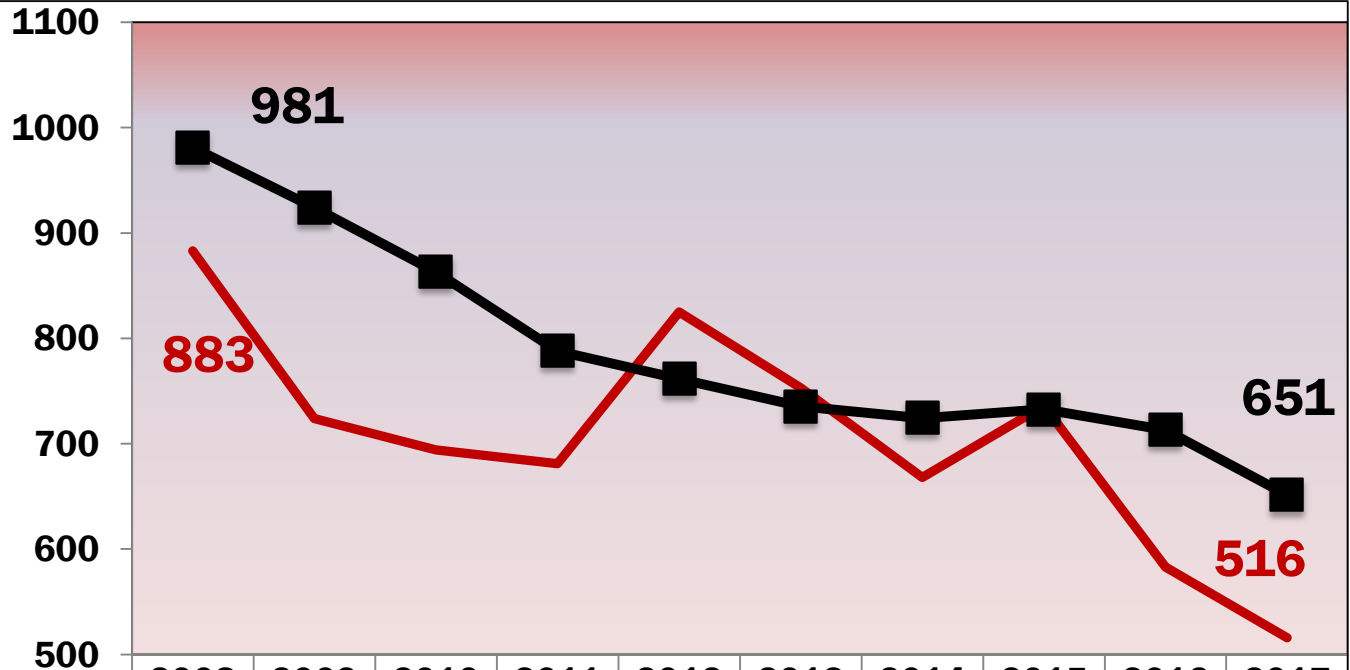
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Montana Population by Age

2000 & 2010 Census



Roadway Departure Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— Roadway Departure Crash - Fatalities and Serious Injuries	883	724	694	681	825	753	668	736	583	516
■ 5 Year Average	981	924	863	788	761	735	724	733	713	651
Fatalities	142	146	121	142	158	151	127	155	130	124
Serious Injuries	741	578	573	539	667	602	541	581	453	392

Montana Comprehensive Highway Safety Plan
2015-2020

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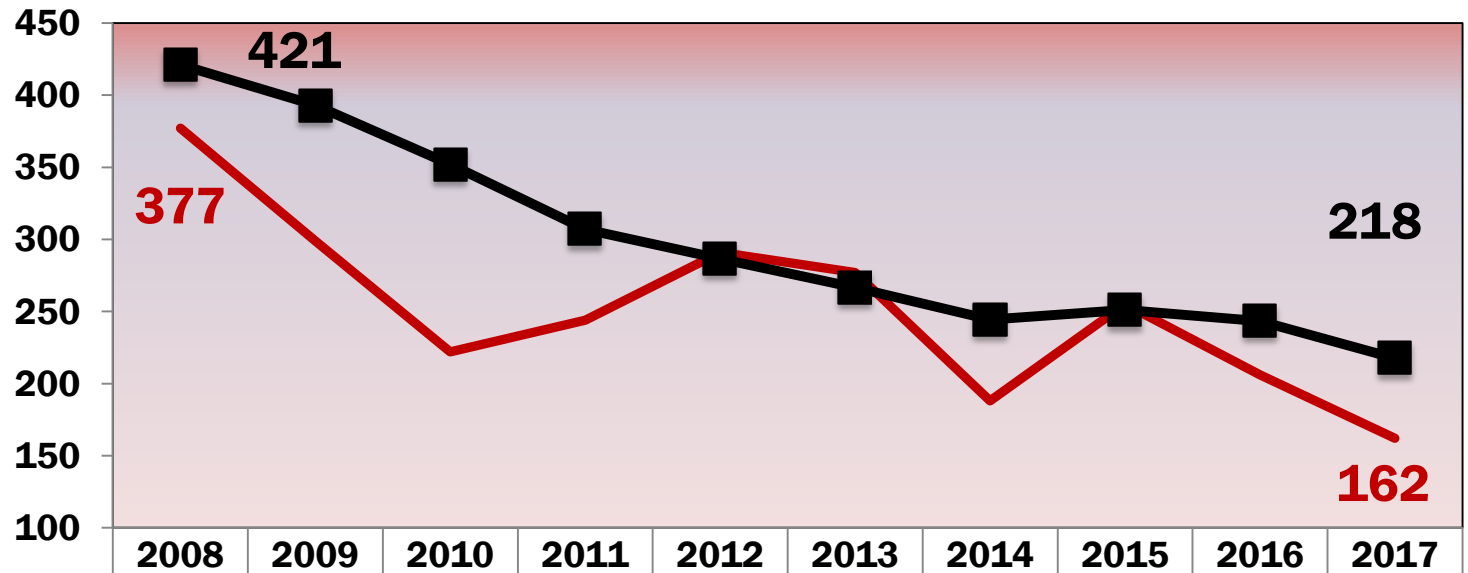
3-Year Roadway Departure Severe Injury Trend -by Crash Factor

	2015	2016	2017
Fatalities	155	130	124
Serious Injuries	581	453	392
Severe Injuries	736	583	516
Impaired Driver Involved (50%)	348	293	273
Unrestrained Occupant (46%)	332	276	229
Older Driver Involved (14%)	91	89	82
Young Driver Involved (16%)	132	86	71
Male Driver Involved (71%)	535	402	370
Female Driver Involved (34%)	227	217	189
Motorcycle Involved (11%)	80	62	66

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

	2015	2016	2017
Fatalities	155	130	124
Serious Injuries	581	453	392
Severe Injuries	736	583	516
Rural Crash (91%)	679	541	458
June, July, August, and September (47%)	347	276	236
Friday, Saturday, Sunday (52%)	386	306	270
Nighttime (33%)	240	208	165
Dry Roadway (79%)	581	479	389
Shoulder Width <4 Feet (43%)	336	251	199
More Than 2 Travel Lanes (22%)	170	146	90
Speed Limit >35 MPH (78%)	577	469	390
Large Vehicle (6%)	51	29	22

Intersection Related Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— Intersection Crash - Fatalities and Serious Injuries	377	299	222	244	291	277	188	255	206	162
■ 5 Year Average	421	393	352	307	287	267	244	251	243	218
Fatalities	37	32	30	29	18	27	20	30	15	17
Serious Injuries	340	267	192	215	273	250	168	225	191	145

3-Year Intersection Severe Injury Trend – by Crash Factor

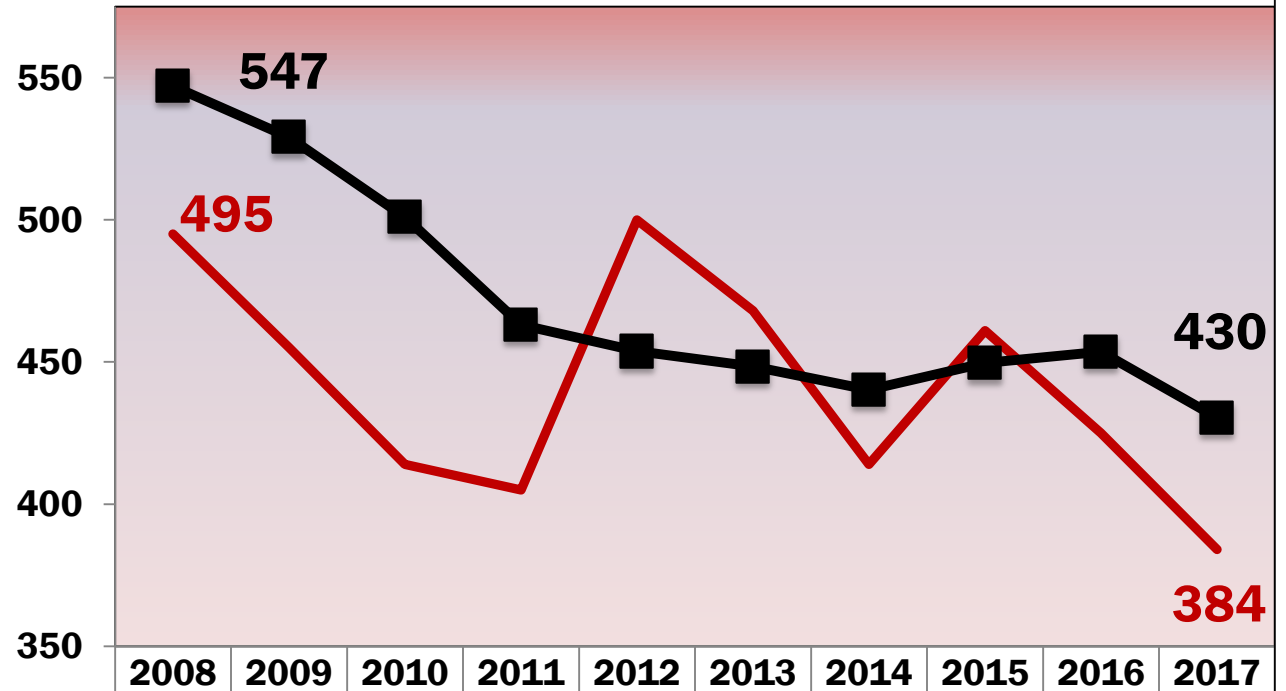
	2015	2016	2017
Fatalities	30	15	17
Serious Injuries	225	191	145
Severe Injuries	255	206	162
Impaired Driver Involved (27%)	65	66	35
Unrestrained Occupant (20%)	46	44	33
Older Driver Involved (25%)	68	49	36
Young Driver Involved (23%)	55	51	35
Male Driver Involved (80%)	209	163	126
Female Driver Involved (56%)	144	105	98
Non-motorized Involved (13%)	28	32	24
Motorcyclist (13%)	32	25	22
Speed Limit >35 MPH (44%)	106	98	73

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

	2015	2016	2017
Fatalities	30	15	17
Serious Injuries	225	191	145
Severe Injuries	255	206	162
Rural Crash (48%)	126	104	71
June, July, August, and September (40%)	109	73	69
Friday, Saturday, Sunday (38%)	93	85	58
Nighttime (24%)	60	58	33
Shoulder Width <4 Feet (33%)	79	72	54
More Than 2 Travel Lanes (32%)	62	81	55
Speed as a Factor (12%)	27	31	18
Large Vehicle (5%)	10	12	12
Low Volume Roadway (AADT < 750) (38%)	91	80	64

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Impaired Driver Involved Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— Impaired Driver Involved - Fatalities and Serious Injuries	495	455	414	405	500	468	414	461	425	384
■ 5 Year Average	547	529	501	463	454	448	440	450	454	430
Fatalities	95	133	107	114	127	136	117	129	128	114
Serious Injuries	400	322	307	291	373	332	297	332	297	270

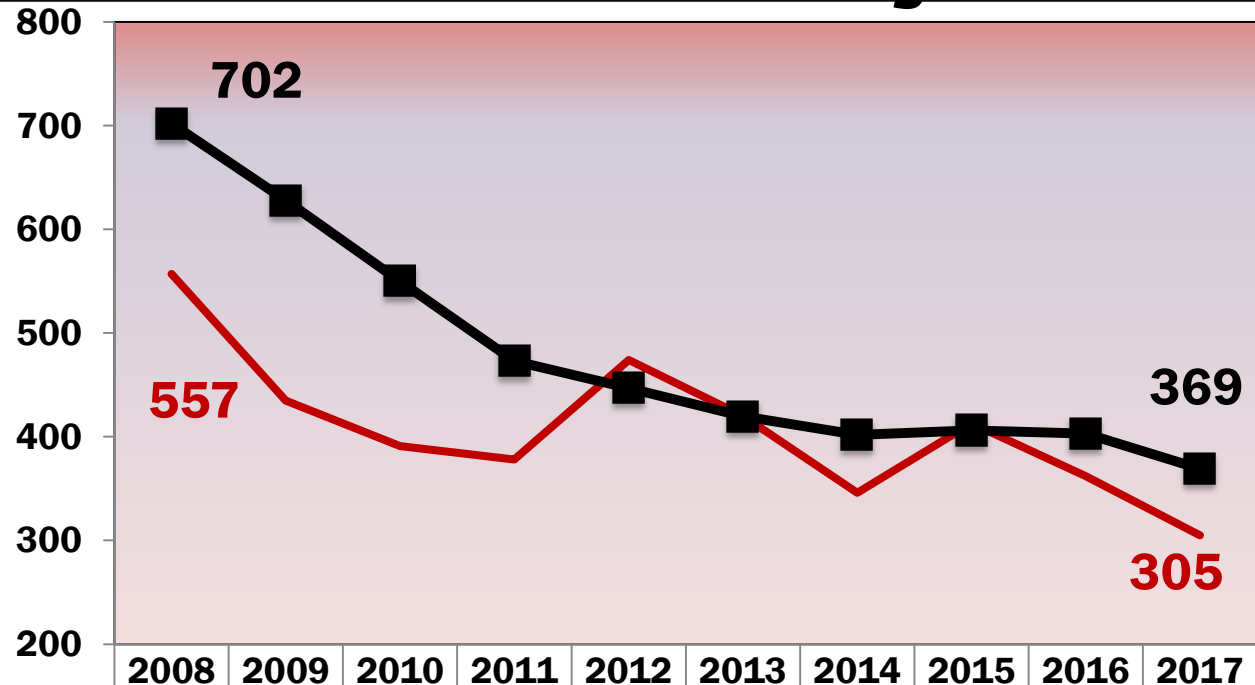
3-Year Impaired Driver Involved Severe Injury Trend -by Crash Factor

	2015	2016	2017
Fatalities	129	128	114
Serious Injuries	332	297	270
Severe Injuries	461	425	384
Roadway Departure Crash (72%)	348	293	273
Intersection Crash (13%)	65	66	35
Unrestrained Occupant (56%)	215	250	242
Impaired Older Driver Involved (6%)	26	24	27
Impaired Young Driver Involved (13%)	61	44	56
Impaired Male Driver Involved (73%)	349	303	272
Impaired Female Driver Involved (28%)	110	125	118
Impaired Motorcyclist Operator (9%)	46	36	31

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

	2015	2016	2017
Fatalities	129	128	114
Serious Injuries	332	297	270
Severe Injuries	461	425	384
Rural Crash (88%)	404	377	333
June, July, August, and September (43%)	214	171	163
Friday, Saturday, Sunday (55%)	263	235	206
Single Vehicle Crash (70%)	328	300	257
Nighttime (46%)	217	193	170
Shoulder Width <4 Feet (44%)	229	183	141
More Than 2 Travel Lanes (19%)	78	90	68
Speed as a Factor (24%)	118	102	85
Low Volume Roadway (AADT < 750) (44%)	196	183	183

Unrestrained Occupants Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— Unrestrained Vehicle Occupant - Fatalities and Serious Injuries	557	435	391	378	474	420	346	413	362	305
■ 5 Year Average	702	628	550	473	447	420	402	406	403	369
Fatalities	121	107	90	110	114	105	100	118	95	84
Serious Injuries	436	328	301	268	360	315	246	295	267	221

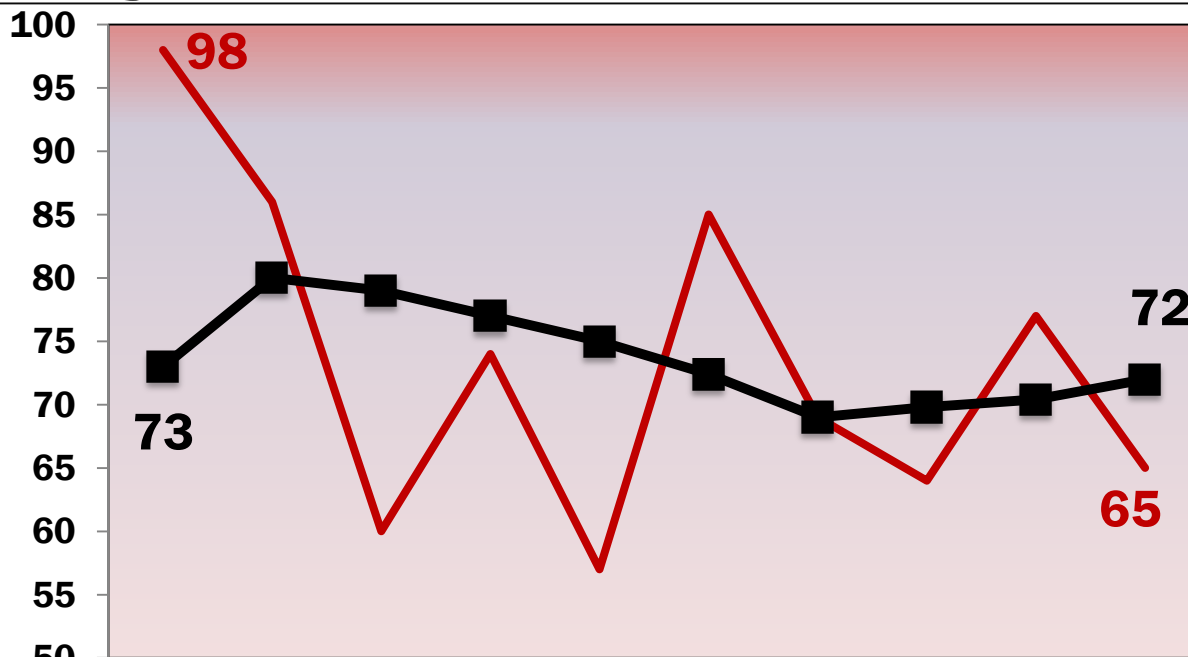
3-Year Unrestrained Occupant Severe Injury Trend – by Crash Factor

	2015	2016	2017
Fatalities	118	95	84
Serious Injuries	295	267	221
Severe Injuries	413	362	305
Roadway Departure Crash (78%)	332	276	229
Intersection Crash (11%)	46	44	33
Impaired Driver Involved (65%)	215	250	242
Older Driver Involved (12%)	44	41	40
Young Driver Involved (21%)	94	65	64
Unrestrained Older Driver (6%)	26	18	21
Unrestrained Young Driver (11%)	50	36	28

3-Year Unrestrained Occupant Severe Injury Trend - by Crash Factor(cont'd.)

	2015	2016	2017
Fatalities	118	95	84
Serious Injuries	295	267	221
Severe Injuries	413	362	305
Rural Crash (91%)	374	344	269
June, July, August and September (41%)	177	138	127
Friday, Saturday, Sunday (24%)	113	80	67
Careless/Inattentive/Distracted (39%)	157	152	108
Nighttime (43%)	177	161	129
Single Vehicle Crash (77%)	315	283	237
Shoulder Width <4 Feet (44%)	208	158	113
More Than 2 Travel Lanes (18%)	62	81	55
Speed Limit >35 MPH (79%)	316	294	244
Low Volume Roadway (AADT < 750) (46%)	184	152	159

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



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— 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

Non-Motorized Severe Injury Trend (Pedestrians & Bicyclists)

	2015	2016	2017
Fatalities	15	14	15
Serious Injuries	49	63	50
Severe Injuries	64	77	65
Intersection Crash (41%)	28	32	24
Impaired Driver Involved (16%)	9	11	12
Urban Crash (67%)	43	49	45
June, July, August, September (44%)	28	33	29
Friday, Saturday, Sunday (44%)	28	36	27
Nighttime (43%)	25	30	33
Speed Limit >35 MPH (25%)	15	23	14

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Non-Motorized Severe Injury Trend

(Pedestrians & Bicyclists) - by Crash Factor (continued)

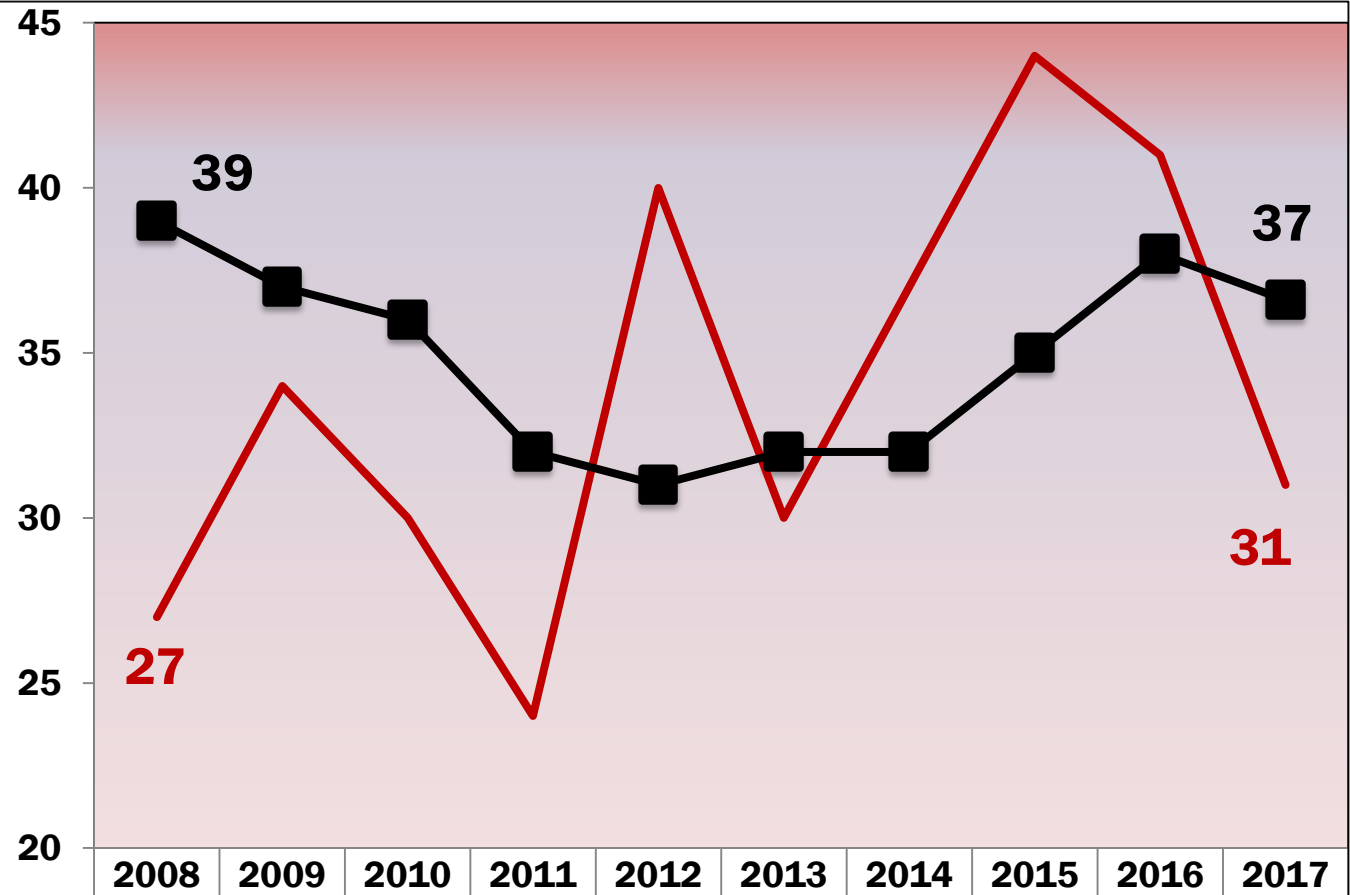
	2015	2016	2017
Fatalities	15	14	15
Serious Injuries	49	63	50
Severe Injuries	64	77	65
Pedestrians (66%)	42	46	47
Bicyclists (34%)	22	31	18
Low Volume Roadway (AADT < 750) (36%)	20	30	25
Shoulder Width <4 Feet (29%)	14	26	20
More Than 2 Travel Lanes (27%)	19	22	15

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Montana Comprehensive Highway Safety Plan
2015-2020

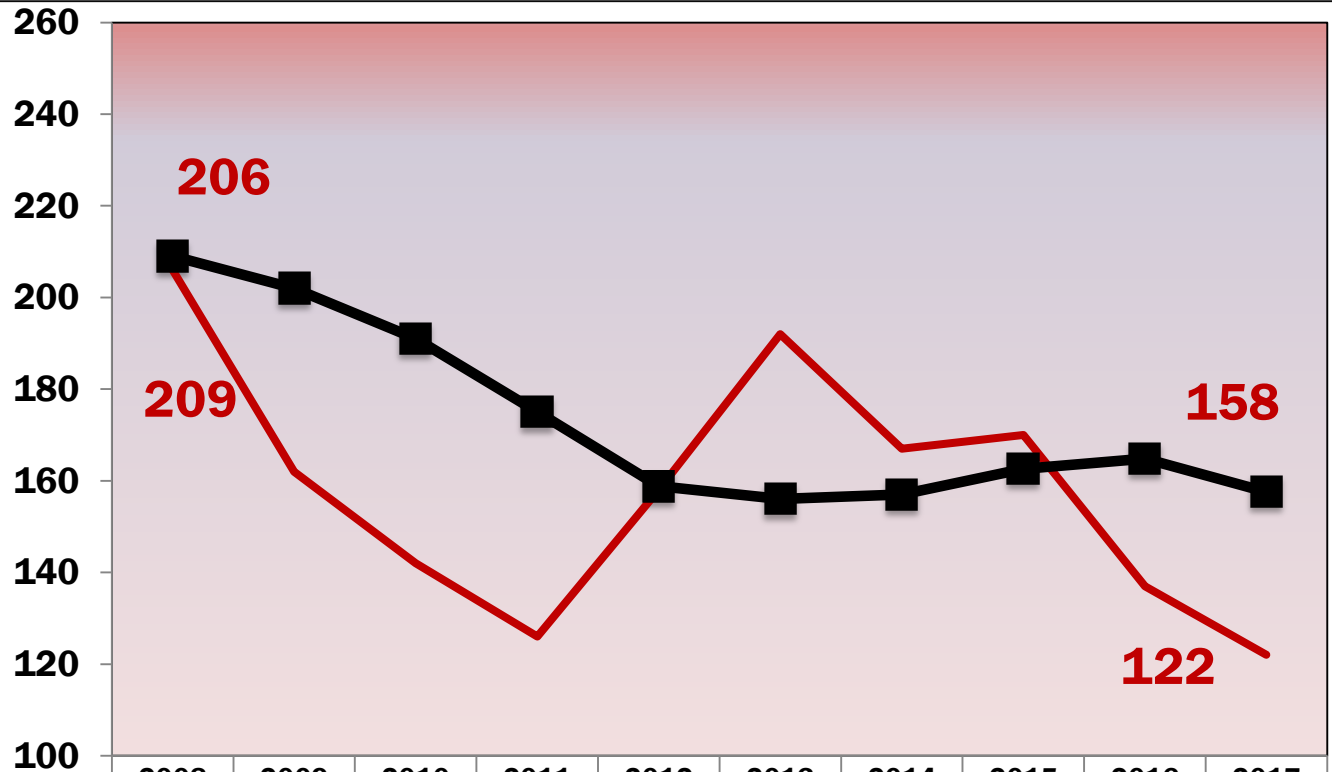
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Native American Fatalities



Native American Fatalities (FARS)	27	34	30	24	40	30	37	44	41	31
5 Year Average	39	37	36	32	31	32	32	35	38	37

Motorcyclist Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Motorcyclist - Fatalities and Serious Injuries	206	162	142	126	158	192	167	170	137	122
5 Year Average	209	202	191	175	159	156	157	163	165	158
Fatalities	36	26	25	20	30	34	23	25	17	22
Serious Injuries	170	136	117	106	128	158	144	145	120	100

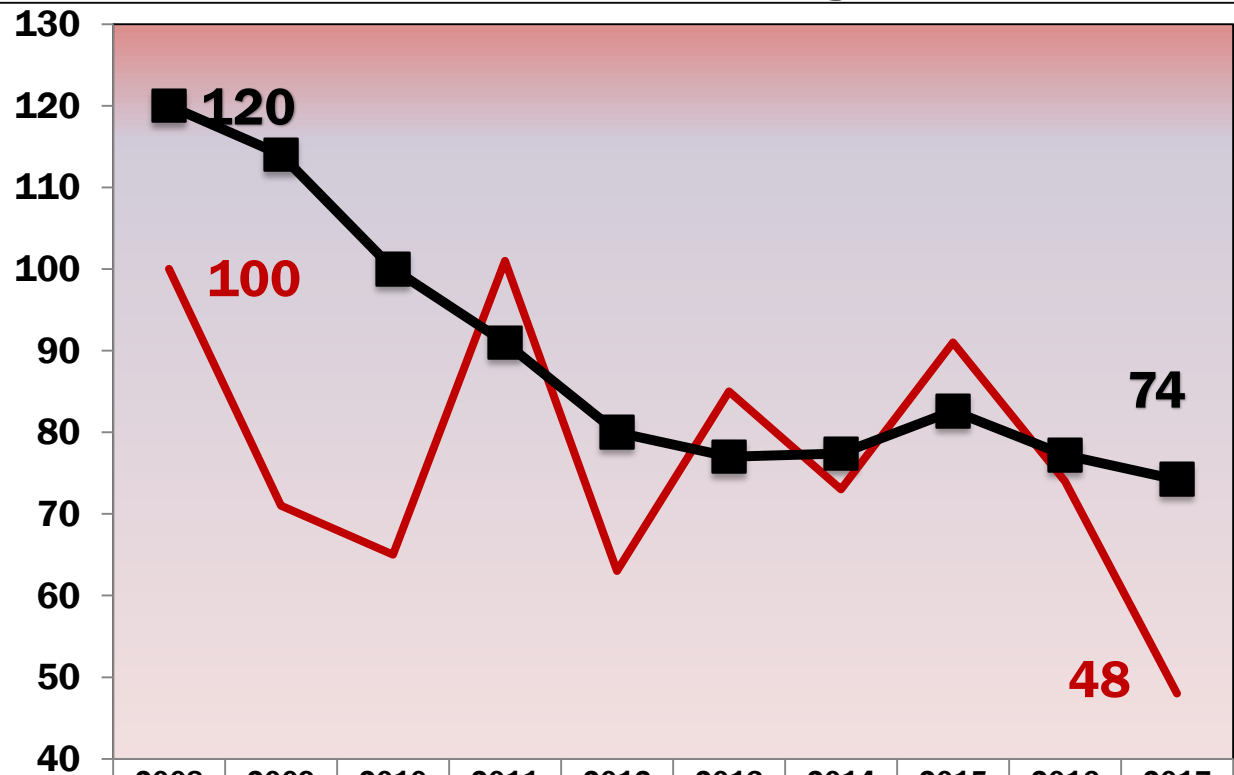
3-Year Motorcyclist Severe Injury Trends - by Crash Factor

	2015	2016	2017
Fatalities	25	17	22
Serious Injuries	145	120	100
Severe Injuries	170	137	122
Roadway Departure Crash (48%)	80	62	66
Intersection Crash (18%)	32	25	22
Impaired Motorcycle Operator Involved (26%)	46	36	31
Motorcyclist - No Helmet (42%)	79	55	47
Motorcycle Driver Age 51-65 Involved (38%)	65	61	35
Motorcycle Driver Age 31-50 Involved (29%)	52	36	36
Motorcycle Driver Age 21-30 Involved (17%)	31	17	24

3-Year Motorcyclist Severe Injury Trends - by Crash Factor (continued)

	2015	2016	2017
Fatalities	25	17	22
Serious Injuries	145	120	100
Severe Injuries	170	137	122
Rural Crash (76%)	129	110	88
Urban Crash (24%)	41	27	34
June, July, August, and September (71%)	119	98	89
Nighttime (17%)	32	25	18
Dry Roadway (96%)	164	131	117
Speed Limit >35 MPH (65%)	106	98	73
Low Volume Roadway (AADT < 750) (40%)	64	49	60
Shoulder Width <4 Feet (50%)	81	71	61
More Than 2 Travel Lanes (19%)	34	25	22

Large Vehicle Involved Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Large Vehicle - Fatalities and Serious Injuries	100	71	65	101	63	85	73	91	74	48
5 Year Average	120	114	100	91	80	77	77	83	77	74
Fatalities	25	27	18	32	11	21	14	22	22	20
Serious Injuries	75	44	47	69	52	64	59	69	52	28

Montana Comprehensive Highway Safety Plan
2015-2020

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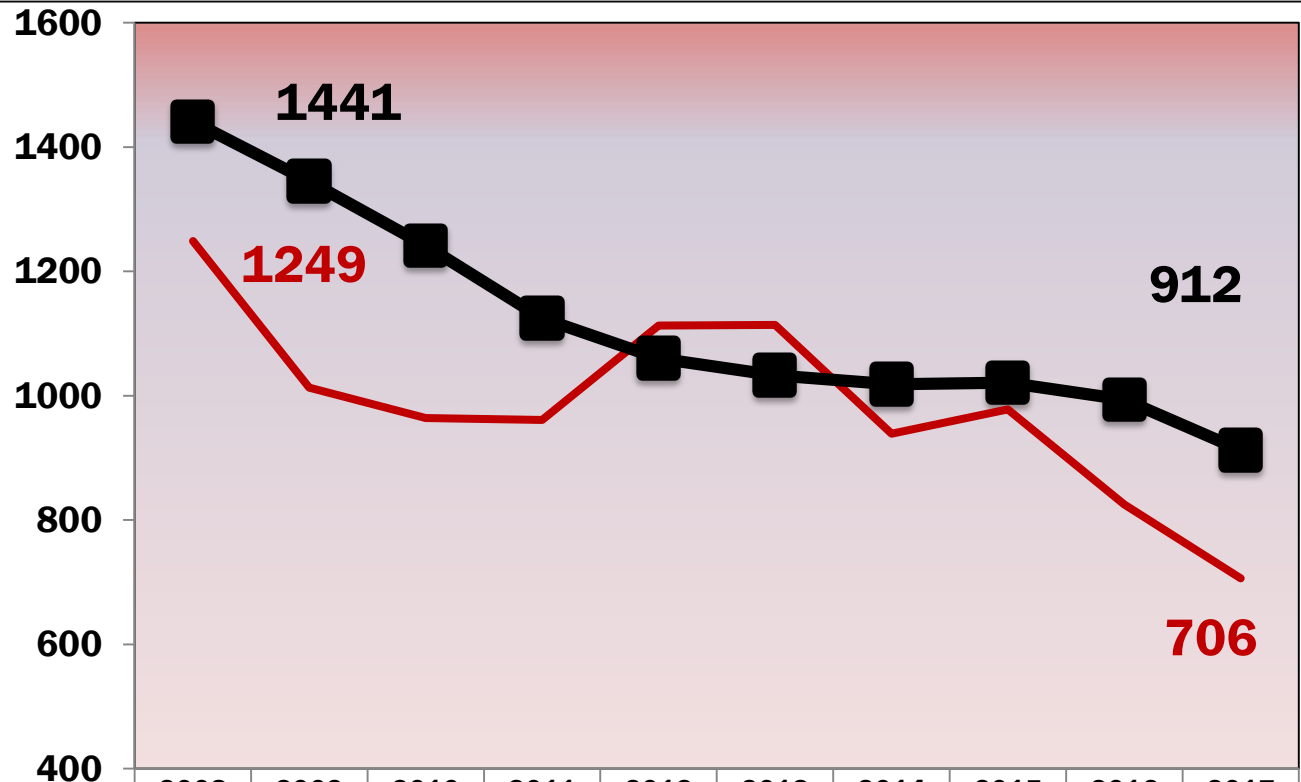
3-Year Large Vehicle Severe Injury Trends – by Crash Factor

	2015	2016	2017
Fatalities	22	22	20
Serious Injuries	69	52	28
Severe Injuries	91	74	48
Roadway Departure Crash (48%)	51	29	22
Intersection Crash (16%)	10	12	12
Impaired Driver Involved (22%)	13	20	14
Unrestrained Occupant (32%)	27	27	15
Rural Crash (92%)	81	70	45
June, July, August (28%)	33	14	13
Friday, Saturday, Sunday (37%)	29	32	17

3-Year Large Vehicle Severe Injury Trends - by Crash Factor (continued)

	2015	2016	2017
Fatalities	22	22	20
Serious Injuries	69	52	28
Severe Injuries	91	74	48
Nighttime (22%)	16	18	12
Dry Roadway (64%)	68	47	22
Speed Limit >35 MPH (88%)	80	65	43
Low Volume Roadway (AADT < 750) (25%)	22	14	17
Shoulder Width <4 Feet (32%)	31	21	16
More Than 2 Travel Lanes (35%)	34	32	9

Rural Roadway Crashes Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Rural Roadway Crash - Fatalities and Serious Injuries	1249	1013	964	961	1113	1114	939	978	825	706
5 Year Average	1441	1345	1241	1124	1060	1033	1018	1021	994	912
Fatalities	202	196	174	176	189	209	174	198	176	163
Serious Injuries	1047	817	790	785	924	905	765	780	649	543

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3-Year Rural Roadway Crash Severe Injury Trends-by Crash Factor

	2015	2016	2017
Fatalities	198	176	163
Serious Injuries	780	649	543
Severe Injuries	978	825	706
Roadway Departure Crash (67%)	679	541	458
Intersection Crash (12%)	126	104	71
Impaired Driver Involved (44%)	404	377	333
Unrestrained Vehicle Occupant (39%)	374	344	269
June, July, August, and September (46%)	449	376	318
Friday, Saturday, Sunday (52%)	502	435	363
Speed Limit >35 MPH (82%)	788	681	578

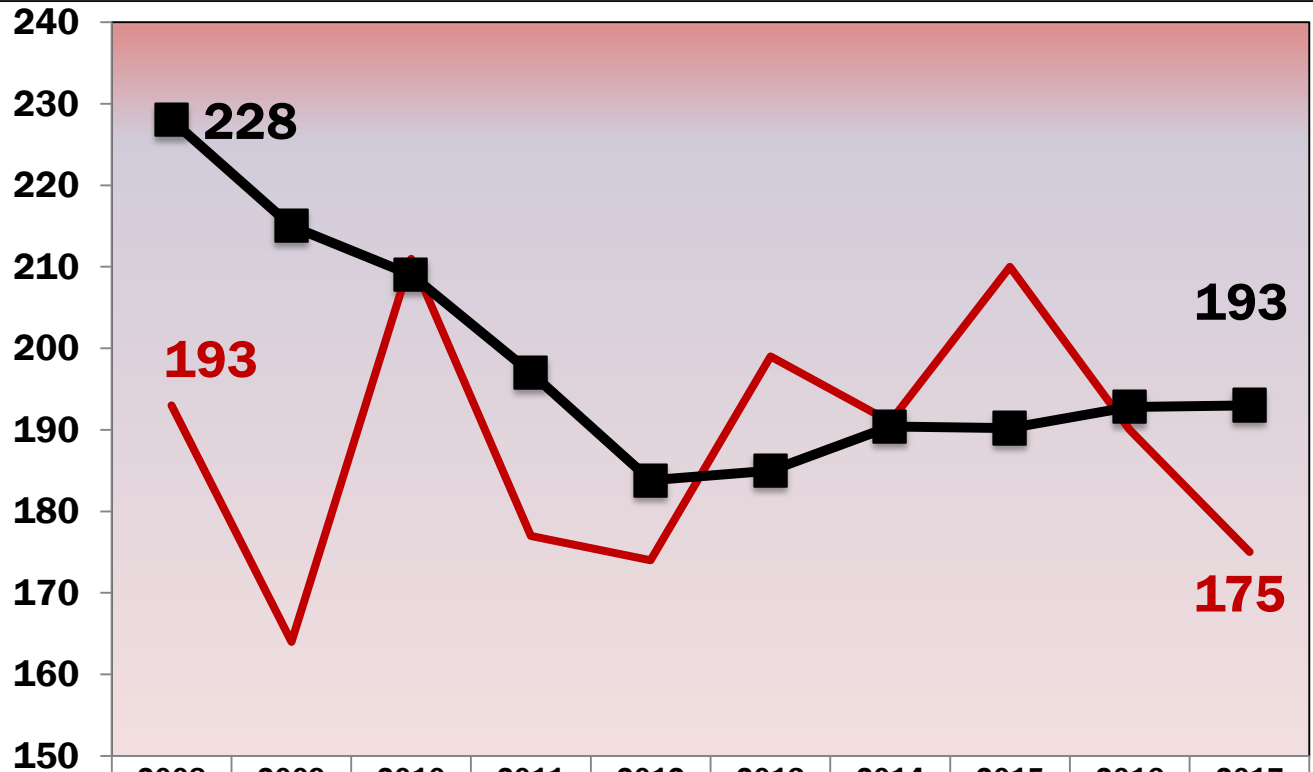
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3-Year Rural Roadway Crash Severe Injury Trends-by Crash Factor (continued)

	2015	2016	2017
Fatalities	198	176	163
Serious Injuries	780	649	543
Severe Injuries	978	825	706
Dry Roadway (78%)	765	675	518
Single Vehicle (68%)	670	583	454
Nighttime (32%)	288	275	228
Older Driver Involved (35%)	320	292	256
Young Driver Involved (17%)	176	132	116

Data retrieved 8/8/18

Older Driver Involved Fatalities & Serious Injuries



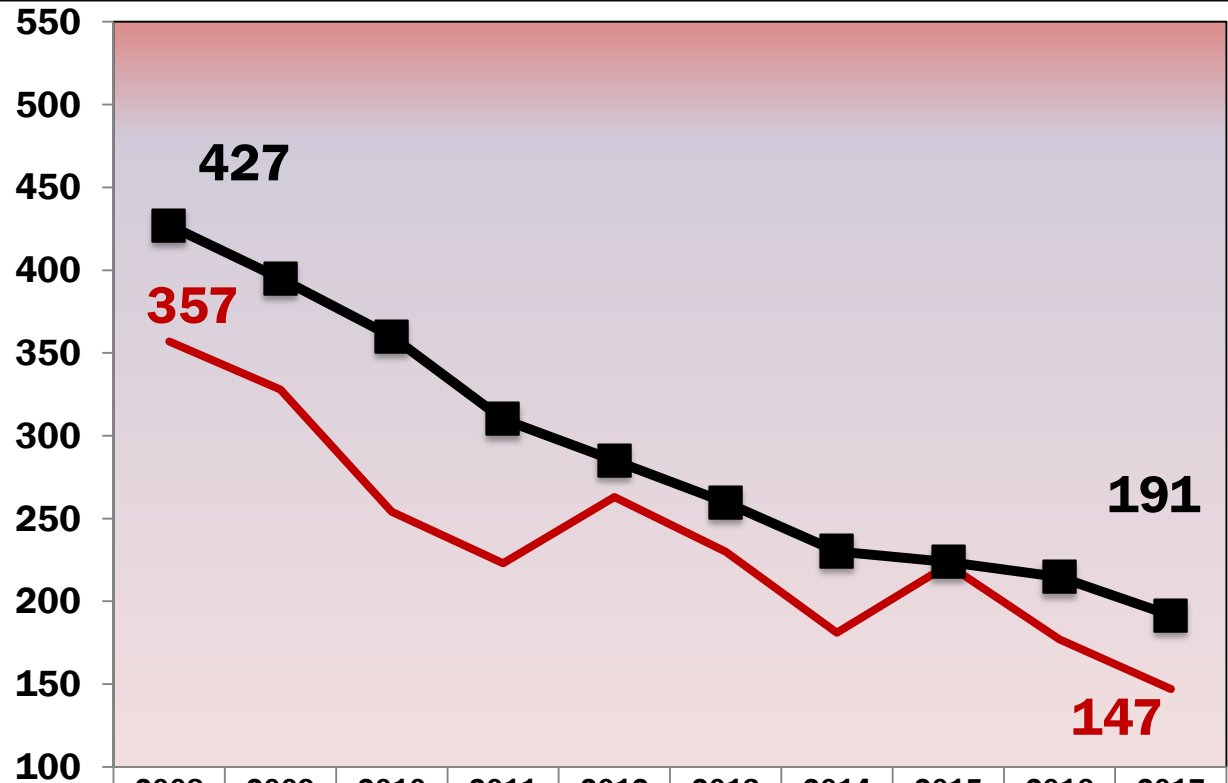
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Driver Age 65 and Older Involved - Fatalities and Serious Injuries	193	164	211	177	174	199	191	210	190	175
5 Year Average	228	215	209	197	184	185	190	190	193	193
Fatalities	31	40	42	39	26	51	32	46	34	37
Serious Injuries	162	124	169	138	148	148	159	164	156	138

Data retrieved 8/8/18

Montana Comprehensive Highway Safety Plan
2015-2020

#VisionZeroMT
zero deaths | zero serious injuries

Young Driver Involved Fatalities & Serious Injuries



	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
— Driver Age 14-20 Involved - Fatalities and Serious Injuries	357	328	254	223	263	230	181	222	177	147
■ 5 Year Average	427	395	360	310	285	260	230	224	215	191
Fatalities	35	41	40	27	26	26	24	36	18	25
Serious Injuries	322	287	214	196	237	204	157	186	159	122

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About this Program

SOBER DRIVERS SAVE LIVES

CLICK HERE TO LEARN WHAT A DUI WILL REALLY COST YOU

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 187 fatalities in 2017. There have been **107** fatalities on Montana highways in 2018 compared to **126** fatalities for this same time in 2017.

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

TOP

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

Montana Comprehensive Highway Safety Plan
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