

# New Mexico Motorcycle Crash Data

New Mexico Motorcycle Safety Program Committee Meeting



Prepared for the NMDOT Traffic Safety Division Under Contract 6093 Jessica Bloom, Research Scientist III University of New Mexico Geospatial and Population Studies (GPS) Traffic Research Unit (TRU) February 26, 2019



Photo by NMDOT

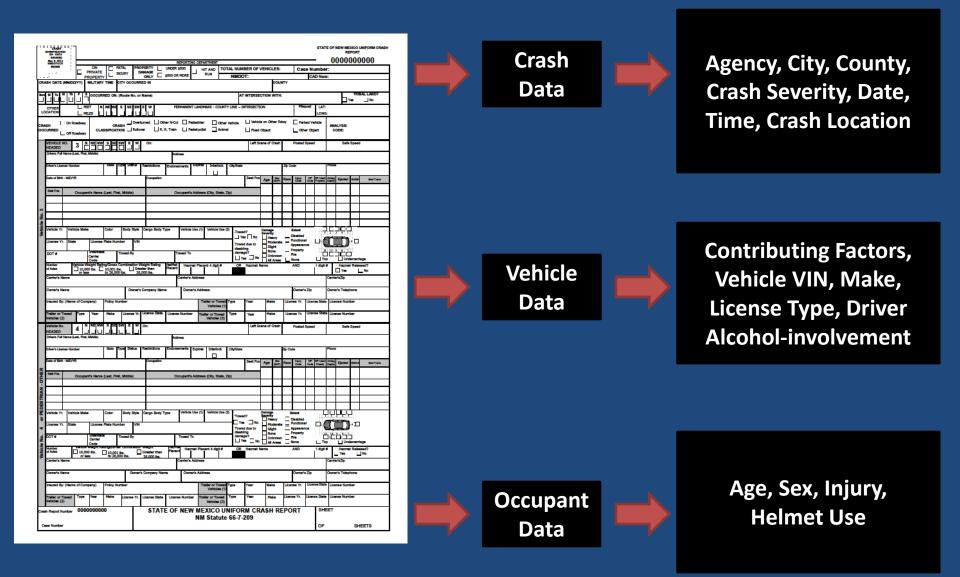
# Agenda

- Crashes and Fatalities
- Distribution by Age Group
- Motorcycle Vehicle Types
- Licensing
- Driver Behavior
- Driver Crash Rates
- Helmet Usage
- Interactive Crash Mapping

- All data exclude ATVs
- Data sources:
  - NMDOT Crash Databases
    - Preliminary 2017 data
  - NMDOT Fatal Log
    - Preliminary 2018 data, as of Jan 2019
  - NM TRD MVD License File
    - July 2017
  - NHTSA Product Information
    Catalog and Vehicle Listing (vPIC)

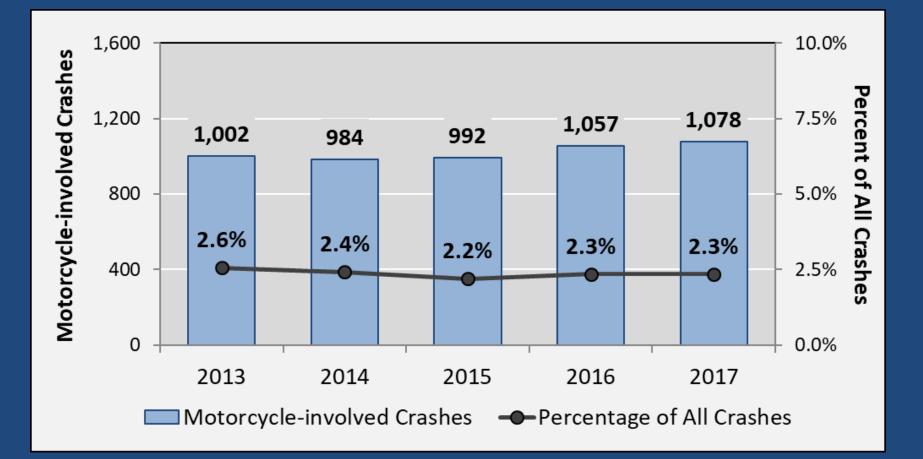
Definition: "Motorcyclists" or "Motorcycle Riders" includes drivers and passengers.

#### New Mexico Crash Report 🗭 NMDOT Crash Database



Annually published motorcycle data at <u>gps.unm.edu</u>. The database only contains reportable crashes. 3

#### Motorcycle-involved Crashes

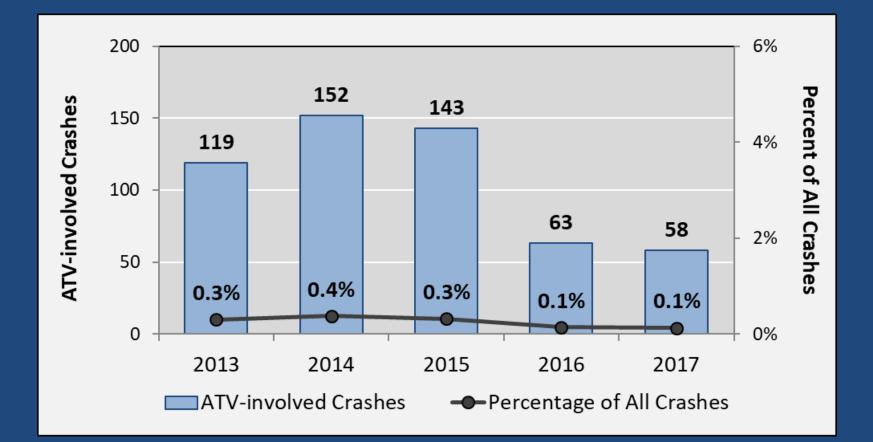


#### Motorcyclists in Crashes by Severity of Injury, 2013 - 2017

	Severity of Injuries to Motorcyclists (Drivers & Passengers) in Crashes											
Year	Fatalities (Class K)		Suspected Serious Injuries (Class A)		Minor	Suspected Minor Injuries (Class B)		Possible Injuries (Class C)		oparent uries uss O)	Total Motorcyclists	
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent
2013	41	4%	170	15%	474	42%	174	15%	282	25%	1,141	100%
2014	43	4%	173	16%	460	42%	192	18%	229	21%	1,097	100%
2015	37	3%	145	13%	504	46%	157	14%	262	24%	1,105	100%
2016	47	4%	158	13%	517	44%	191	16%	265	22%	1,178	100%
2017	53	4%	138	12%	518	43%	196	16%	288	24%	1,193	100%
Total	221	4%	784	14%	2,473	43%	910	16%	1,326	23%	5,714	100%

	Severity of Injuries to All People in All Vehicles in All Crashes, 2013 - 2017											
Total	1,780	0.3%	6,058	1%	21,456	4%	64,514	12%	453,876	83%	547,684	100%

### **ATV-involved Crashes**



ATVs are excluded from all data in this presentation.

#### Motorcycle Drivers in Crashes by Driver Age Group and Vehicle Make, 2013 - 2017

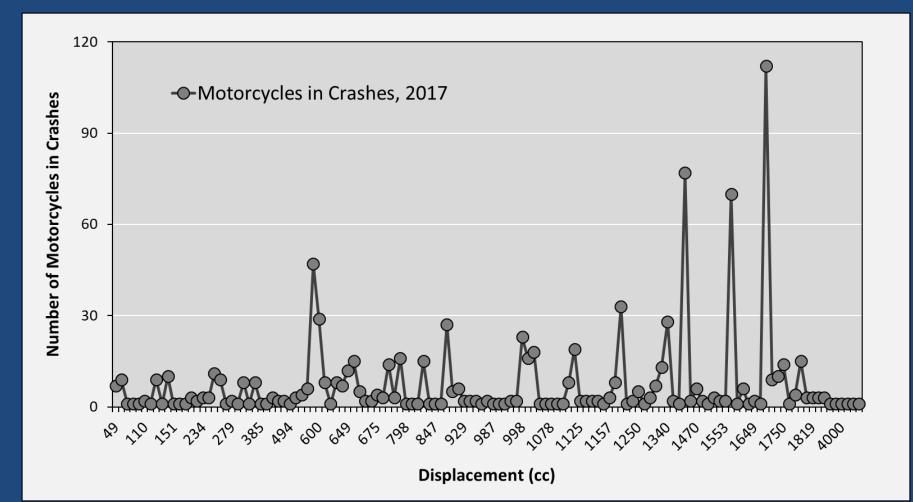
Driver Age	Ν	/lotorcycle \	/ehicles ir	n Crashes	by Driver Age	e Group	and Manufa	cturer, 20	13 - 2017		Total
Group	HARLEY DAVIDSON	YAMAHA	HONDA	SUZUKI	KAWASAKI	BMW	TRIUMPH	DUCATI	VICTORY	OTHER	Vehicles
<18	11	58	54	17	44	4	2	1	0	23	214
18-19	14	32	32	10	30	3	4	2	0	7	134
20-24	94	174	149	102	149	6	15	6	1	48	744
25-29	137	124	130	69	99	10	15	6	1	23	614
30-34	167	77	66	62	46	7	10	5	7	36	483
35-39	167	55	54	39	38	6	3	4	6	26	398
40-44	178	42	47	33	28	7	7	3	5	20	370
45-49	202	35	44	28	17	13	8	3	2	18	370
50-54	277	42	57	18	34	17	7	2	5	34	493
55-59	228	34	45	21	9	17	9	0	4	22	389
60-64	161	25	43	5	22	19	0	0	3	23	301
65-69	85	18	26	5	10	11	7	1	1	12	176
70 +	54	10	30	2	7	5	4	2	1	13	128
Missing	50	26	25	12	22	6	2	2	1	14	160
Total	1,825	752	802	423	555	131	93	37	37	319	4,974

#### Motorcycle Drivers in Crashes by Age Group and Vehicle Type, 2013 - 2017

	Motorcy	cle Drivers	s in Crashe	s by Age G	roup and V	ehicle Type, 2	2013 - 2017	
Age Group	Touring	Cruiser	Sport	Standard / Street	Moped / Scooter	Dirt Bike / Dual Sport / Off-Road	Trike / Unenclosed 3-Wheeled	Total Riders
<18	1	26	80	11	9	31	0	158
18-19	2	19	71	9	4	5	0	110
20-24	22	126	349	61	23	27	0	608
25-29	41	159	216	54	16	20	0	506
30-34	62	142	117	44	14	11	0	390
35-39	67	132	61	38	16	5	1	320
40-44	72	132	51	37	7	7	1	307
45-49	85	135	32	36	11	14	0	313
50-54	157	151	16	27	19	24	4	398
55-59	142	124	12	25	13	5	2	323
60-64	97	86	3	29	9	9	4	237
65-69	58	47	4	17	6	3	9	144
70 +	42	36	4	9	10	4	4	109
Missing	24	27	38	14	2	8	0	113
Total	872	1,342	1,054	411	159	173	25	4,036

Not shown: 23% of all MC drivers (1,183 out of 5,235) due to missing/invalid VIN on crash report.

#### Motorcycles in Crashes by Engine Displacement, 2017

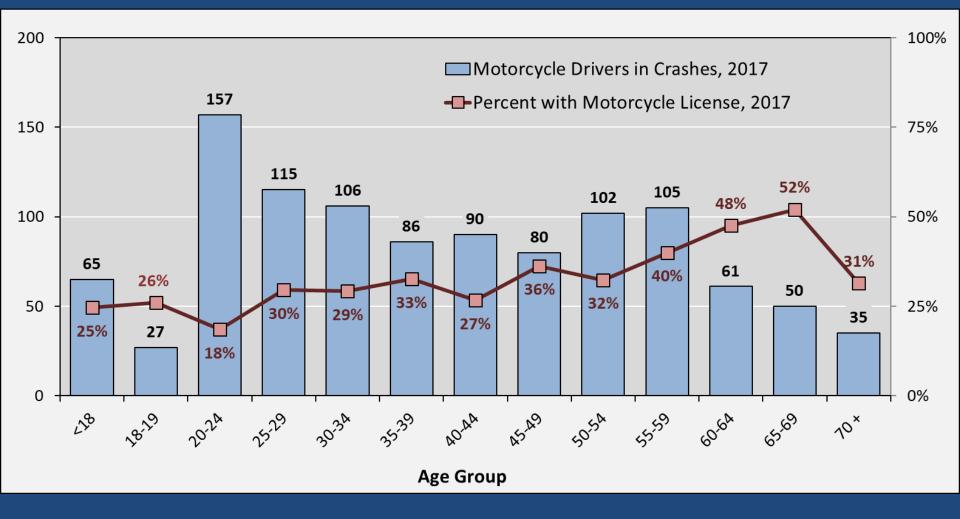


# Motorcycle Drivers in Crashes by Vehicle Type and MC Endorsement/License, 2017

	Motorcy	cle Drivers in (	Crashes by N	AC Endorsement/	License, 2017
Vehicle Type	Licensed for Motorcycle Operation	Unlicensed (or Missing Data)	Total Drivers	Percent Licensed	Percent Unlicensed (or Missing Data)
Touring	77	129	206	37%	63%
Cruiser	123	207	330	37%	63%
Sport	52	163	215	24%	76%
Standard / Street	34	68	102	33%	67%
Moped / Scooter	6	32	38	16%	84%
Dirt Bike / Dual Sport / Off-Road	13	32	45	29%	71%
Trike / Enclosed 3-Wheeled	3	6	9	33%	67%
Total Drivers	308	637	945	33%	67%

Licensed means either an "M" class license or endorsement of W, Y or Z. Not shown: Motorcycle drivers in crashes with missing/invalid VIN on crash report.

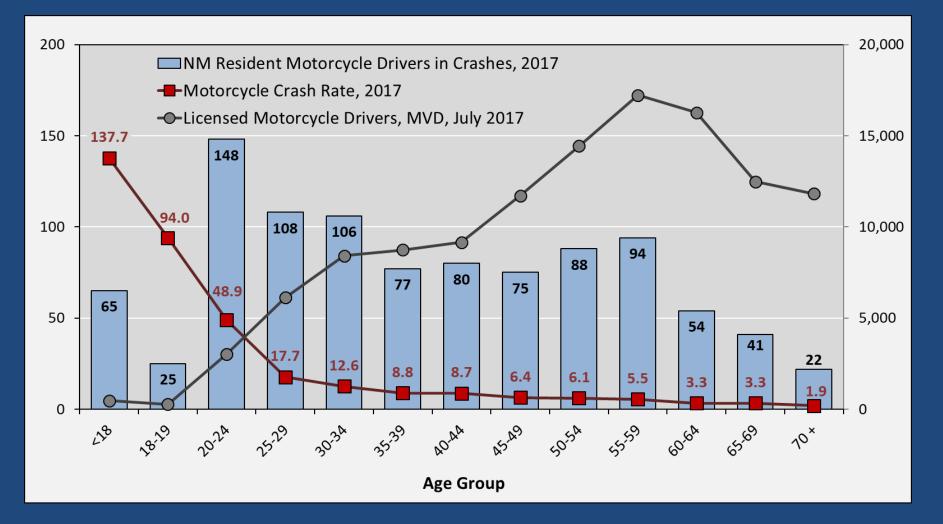
# Motorcycle Drivers in Crashes by Age Group and MC Endorsement/License, 2017



Overall in 2017, at least 31% of motorcycle drivers in crashes had a motorcycle license or endorsement.

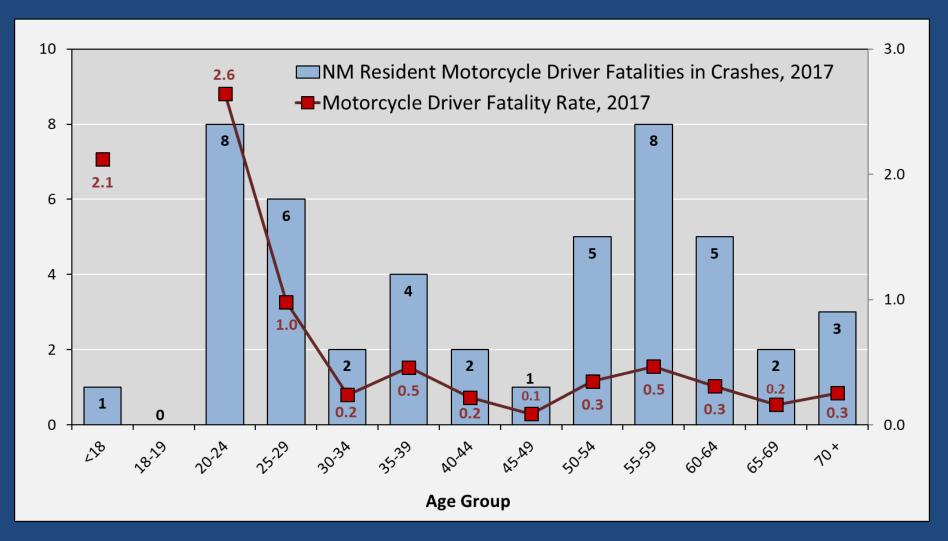
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### Crash Rates by Age Group, 2017



Crash Rate: The number of NM resident motorcycle drivers in crashes per 1,000 MVD motorcycle licenses/endorsements in each age group.

#### Motorcycle Driver Fatality Rates by Age Group, 2017

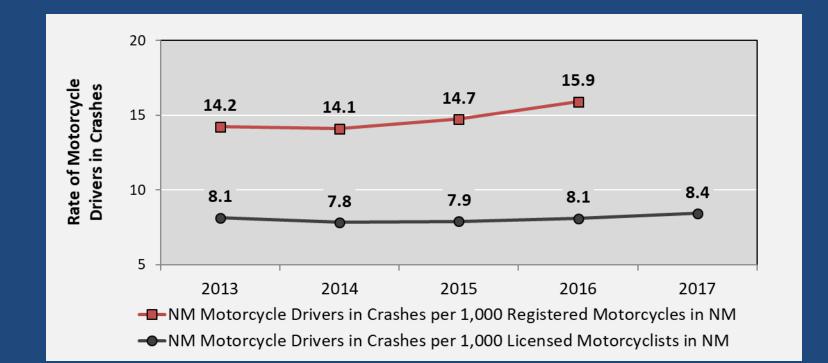


Fatality Rate: The number of NM resident motorcycle drivers killed in crashes per 1,000 MVD motorcycle licenses/endorsements in each age group.

#### Motorcyclist Fatality Rates by Age Group, 2013 - 2017

Age Group	Motorcyclist	-	sts in Crashes, - 2017	All Fatalities in Crashes, 2013 - 2017			
Age Group	Fatalities	Count	Percent Killed	Count	Percent Motorcyclists		
<18	6	300	4.2%	142	4.2%		
18-19	1	150	0.7%	47	2.1%		
20-24	24	828	2.9%	235	10.2%		
25-29	23	671	3.4%	214	10.7%		
30-34	22	551	4.0%	172	12.8%		
35-39	18	451	4.0%	127	14.2%		
40-44	17	434	3.9%	119	14.3%		
45-49	19	435	4.4%	132	14.4%		
50-54	27	556	4.9%	132	20.5%		
55-59	28	435	6.4%	128	21.9%		
60-64	15	327	4.6%	94	16.0%		
65-69	13	196	6.6%	81	16.0%		
70 +	8	138	5.8%	152	5.3%		
Missing Data	0	242	0.0%	5	0.0%		
Total	221	5,714	3.9%	1,780	12.4%		

#### Motorcycle Driver Crash Rates



Year	NM Registered Motorcycles	NM Licensed Motorcycle Drivers
2013	65,321	114,136
2014	64,598	116,291
2015	63,248	117,944
2016	61,877	121,408
2017		120,120

**Table Sources:** Registered motorcycles - USDOT FHWA, "Highway Statistics Series", 2016. https://www.fhwa.dot.gov/policyinformation/statistics.cfm

Licensed Drivers - NMTRD MVD July data for each year. License=MCY or endorsement of W, Y or Z.

Contributing Factors of Motorcycle Drivers in Crashes	Frequen Motorcyc	•	Frequency in Fatal Motorcycle Crashes			
	Count	Percent	Count	Percent		
Behavior	4,664	66.2%	363	85.2%		
Driver Inattention	1,191	16.9%	59	13.8%		
Excessive Speed	756	10.7%	84	19.7%		
Other Improper Driving	589	8.4%	38	8.9%		
Avoid No Contact - Vehicle	317	4.5%	12	2.8%		
Speed Too Fast for Conditions	312	4.4%	23	5.4%		
Alcohol Involved	294	4.2%	68	16.0%		
Following Too Closely	269	3.8%	3	0.7%		
Failed to Yield Right of Way	177	2.5%	6	1.4%		
Avoid No Contact - Other	121	1.7%	3	0.7%		
Improper Overtaking	121	1.7%	6	1.4%		
Made Improper Turn	113	1.6%	4	0.9%		
Drove Left Of Center	92	1.3%	15	3.5%		
Vehicle Skidded Before Brake	66	0.9%	4	0.9%		
Improper Lane Change	59	0.8%	4	0.9%		
Disregarded Traffic Signal	57	0.8%	2	0.5%		
Passed Stop Sign	43	0.6%	3	0.7%		
Drug Involved	39	0.6%	26	6.1%		
Failed to Yield to Emergency Veh.	2	0.0%	2	0.5%		
Texting	2	0.0%	1	0.2%		
All Other Behaviors	44	0.7%	0	0.2%		
Vehicle	164	2.3%	12	2.8%		
Other Mechanical Defect	77	1.1%	4	0.9%		
Inadequate Brakes	38	0.5%	3	0.7%		
Defective Tires	33	0.5%	5	1.2%		
Defective Steering	16	0.2%	0	0.0%		
Environmental	81	1.1%	2	0.5%		
Road Defect	77	1.1%	1	0.2%		
Traffic Control Not Functioning	4	0.1%	1	0.2%		
Other	2,137	30.3%	49	11.5%		
None / No Driver Error	2,137	30.3%	49	11.5%		
Total Contributing Factors	7,046	100.0%	426	100.0%		

Motorcycle Driver Behavior in Crashes, 2013 - 2017

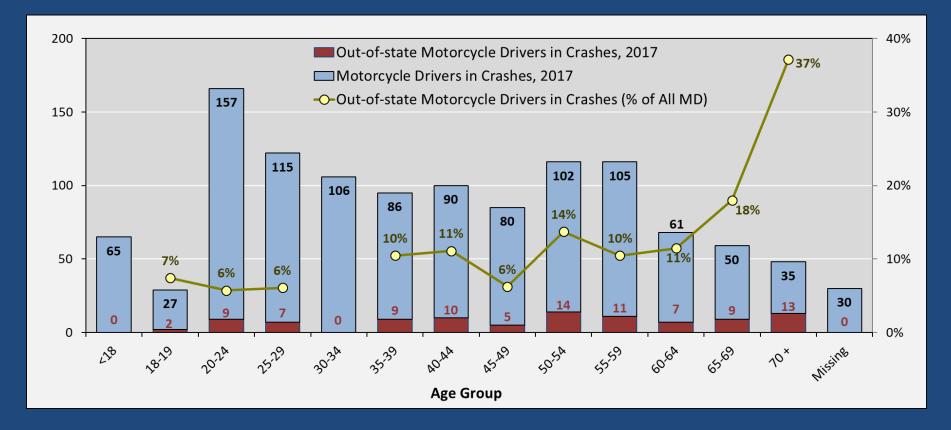
#### Motorcycle Driver Behavior in Crashes by Age Group, 2013 - 2017

	Commo	n Contributing	Factors of Moto	orcycle Drivers	in Crashes, 201	3 - 2017
Age Group	Under the Influence of Alcohol	Excessive Speeding	Distracted Driving	Other Aggressive Driving	None / No Driver Error	Under the Influence of Drugs
<18	2	51	70	97	55	1
18-19	0	33	34	38	46	0
20-24	30	180	175	227	270	10
25-29	36	122	145	171	218	7
30-34	41	75	128	129	196	4
35-39	37	58	108	88	177	4
40-44	27	52	78	83	177	0
45-49	30	44	88	91	170	2
50-54	39	45	91	91	243	4
55-59	32	32	74	87	191	2
60-64	14	15	65	68	142	3
65-69	2	11	49	27	89	2
70 +	3	10	24	33	66	0
Missing Data	1	28	62	71	59	0
Total	294	756	1,191	1,301	2,099	39

Contributing Factors of Other (Non-Motorcycle) Drivers in Motorcycle Crashes	Frequen Motorcyc	-	Frequency in Fatal Motorcycle Crashes			
	Count	Percent	Count	Percent		
Behavior	2,972	70.9%	130	68.8%		
Driver Inattention	1,026	24.5%	32	16.9%		
Failed to Yield Right of Way	787	18.8%	35	18.5%		
Made Improper Turn	188	4.5%	8	4.2%		
Other Improper Driving	168	4.0%	12	6.3%		
Following Too Closely	123	2.9%	0	0.0%		
Improper Lane Change	110	2.6%	1	0.5%		
Avoid No Contact - Vehicle	91	2.2%	9	4.8%		
Disregarded Traffic Signal	78	1.9%	4	2.1%		
Excessive Speed	63	1.5%	4	2.1%		
Drove Left Of Center	48	1.1%	4	2.1%		
Improper Backing	48	1.1%	2	1.1%		
Alcohol Involved	48	1.1%	10	5.3%		
Passed Stop Sign	40	1.0%	0	0.0%		
Improper Overtaking	38	0.9%	1	0.5%		
Avoid No Contact - Other	35	0.8%	1	0.5%		
Speed Too Fast for Conditions	32	0.8%	4	2.1%		
Pedestrian Error	19	0.5%	0	0.0%		
Drug Involved	6	0.1%	1	0.5%		
Failed to Yield to Police Vehicle	5	0.1%	1	0.5%		
High Speed Pursuit	4	0.1%	1	0.5%		
All Other Behaviors	15	0.4%	0	0.0%		
Vehicle	30	0.6%	3	1.6%		
Other Mechanical Defect	19	0.5%	3	1.6%		
Brakes, Steering or Tires	11	0.2%	0	0.0%		
Environmental	7	0.2%	2	1.1%		
Traffic Control Not Functioning	4	0.1%	1	0.5%		
Road Defect	2	0.0%	1	0.5%		
Low Visibility Due to Smoke	1	0.0%	0	0.0%		
Other	1,180	28.2%	54	28.6%		
None / No Driver Error	1,180	28.2%	54	28.6%		
Total Contributing Factors	4,189	99.9%	189	100.0%		

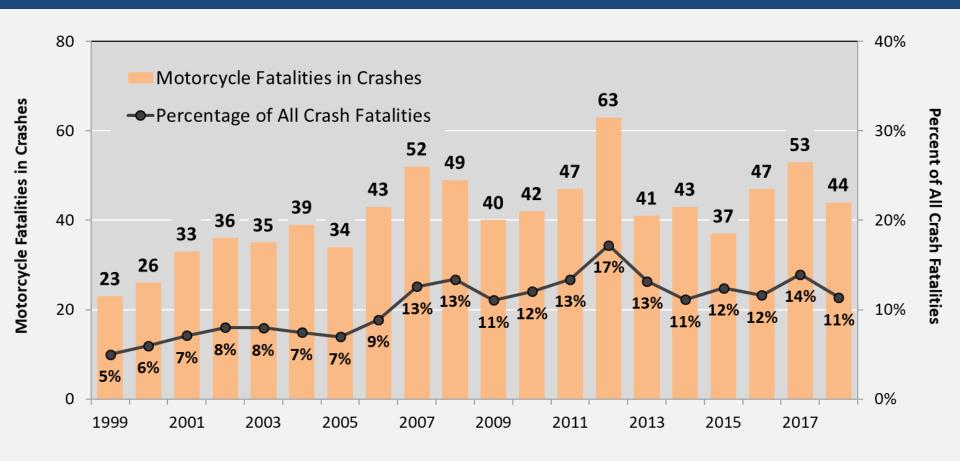
Behavior of Other (Non-Motorcycle) Drivers in Motorcycle Crashes, 2013 - 2017

#### Motorcycle Drivers in Crashes by Age Group and Residence, 2017



#### Statewide in 2017, 9% of MC drivers in crashes were from out-of-state.

# Motorcyclist Fatalities in Crashes



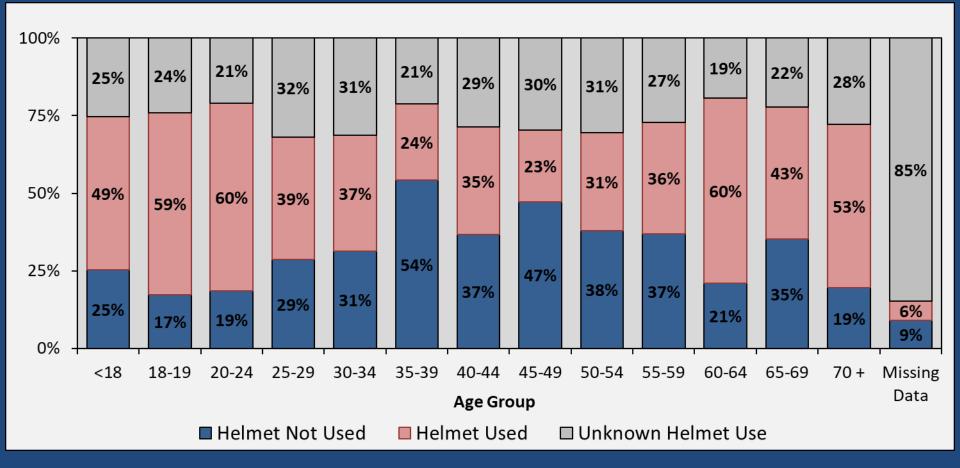
Other factors to consider: Passenger car safety technology improvements, increase usage of seatbelts, efforts to reduce fatalities due to DUI. 20

#### Top 10 Counties Ranked by Motorcyclist Fatalities in Crashes, 2013 - 2018

6-Year	County	1	Motorcy	6-Year	Percent				
Rank		2013	2014	2015	2016	2017	2018	Total	of Total
1	Bernalillo	9	13	11	17	18	19	87	33%
2	Doña Ana	5	3	5	3	4	2	22	8%
3	Santa Fe	1	4	4	2	4	2	17	6%
4	San Juan	1	3	4	2	2	1	13	5%
5	Chaves	3	1	2	1	2	1	10	4%
5	Eddy	0	2	0	2	2	4	10	4%
7	Sandoval	2	2	1	0	1	3	9	3%
8	Lea	1	1	1	2	1	2	8	3%
8	Colfax	3	2	0	2	1	0	8	3%
8	Taos	2	1	0	1	2	2	8	3%
8	Lincoln	2	1	0	3	2	0	8	3%
All Other Counties		12	10	9	12	14	8	65	25%
Total		41	43	37	47	53	44	265	100%

Data from 2018 are preliminary.

#### Helmet Usage as a Percentage of Motorcycle Riders in Crashes in Each Age Group, 2017



Overall 29% (341) of motorcyclists in crashes missing age or helmet data, down from 36% in 2016 and 43% in 2015.

## Motorcyclists in Crashes by Helmet Usage, 2013 - 2017

	H	Helmet Us	Total Motorcyclists						
Year	Helmeted		Unhelmeted		Missir	ng Data	in Crashes		
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	
2013	530	46%	397	35%	214	19%	1,141	100%	
2014	375	34%	312	28%	410	37%	1,097	100%	
2015	358	32%	284	26%	463	42%	1,105	100%	
2016	447	38%	315	27%	416	35%	1,178	100%	
2017	477	40%	380	32%	336	28%	1,193	100%	
Total	2,187	38%	1,688	30%	1,839	32%	5,714	100%	

Possible causes of missing data: Hit-and-run situations, officer training, or urgent medical transport.

#### Motorcyclist Fatalities in Crashes by Helmet Usage, 2013 - 2017

		Increased Risk					
Year	Fata	lities	Total Motor	cycle Riders*	Percer	of Fatal	
	Helmeted	Unhelmeted	Helmeted	Unhelmeted	Helmeted	Unhelmeted	Injury**
2013	7	34	530	397	1.3%	8.6%	6.5 x greater
2014	8	35	375	312	2.1%	11.2%	5.3 x greater
2015	15	22	358	284	4.2%	7.7%	1.8 x greater
2016	26	21	447	315	5.8%	6.7%	1.1 x greater
2017	18	35	477	380	3.8%	9.2%	2.4 x greater
Total	74	147	2,187	1,688	3.4%	8.7%	2.6 x greater

\* Helmet data is unavailable for 32% (1,839) of motorcycle riders in crashes, all non-fatalities.
 \*\* Based on the fatality ratio (i.e. percent of unhelmeted fatalities divided by the percent of helmeted fatalities).

# Motorcyclist Fatalities in Crashes by Helmet Usage and Age Group, 2013 - 2018

	Motorcycle Fatalities in Crashes												
Age Group	Helmeted						Unhelmeted						Total
	2013	2014	2015	2016	2017	2018	2013	2014	2015	2016	2017	2018	lotal
<18		2		2	1					1			6
18-19						1		1				1	3
20-24		2	2	3	5	5	3	3	1	2	3	1	30
25-29	1	1	1	8	2	2	2		3	1	4	3	28
30-34	2		2	2			4	5	3	2	2	3	25
35-39			1	1		1	5	2	2	3	4	4	23
40-44					4		3	5	2	3		3	20
45-49			3	2			6	3	3	1	1	1	20
50-54	1	3	1		1	3	4	5	2	5	5	3	33
55-59	1		1	2			2	7	3	2	10	2	30
60-64			2	2		1	2	3		1	5		16
65-69			2	4	2	1	2		2		1	1	15
70 +	2				3	3	1	1	1			1	12
Total	7	8	15	26	18	17	34	35	22	21	35	23	261

Data from 2018 are preliminary.

# Motorcyclist Fatalities in Crashes by Vehicle Type and Helmet Usage, 2013-2017

Vehicle Type	Helmeted Motorcycle Fatalities					Unhe	Total					
<i>"</i>	2013	2014	2015	2016	2017	2013	2014	2015	2016	2017		
Touring	0	0	2	3	1	8	10	6	9	19	58	
Cruiser	2	0	3	2	2	7	12	6	4	4	42	
Sport	2	4	3	12	9	8	2	2	3	7	52	
Standard / Street	1	0	4	3	3	0	2	3	1	0	17	
Moped / Scooter	0	0	0	0	0	0	0	0	0	1	1	
Dirt Bike / Dual Sport / Off-Road	0	1	1	0	0	0	0	0	0	1	3	
Trike / Enclosed 3-Wheeled	0	0	0	2	1	0	0	0	1	0	4	
Missing Data	2	3	2	4	2	11	9	5	3	3	44	
Total	7	8	15	26	18	34	35	22	21	35	221	

Vehicle type data are unavailable for 20% (44 out of 221), mostly from 2013 and 2014. 26

#### Drivers of Scooters/Mopeds in Crashes, 2013-2017

Top Contributing Factor of	Drivers of Scooters/Mopeds in Crashes, 2013 - 2017									
Scooter/Moped Driver	<50 cc	50 - 99 cc	100 - 149 cc	150 - 199 cc	200+ cc	Not Specified	Total Drivers	Percent of Total		
None / No Driver Error	3	29	11	13	11	3	70	44%		
Driver Inattention	3	5	2	8	2	1	21	13%		
Alcohol/Drug Involved	3	4	1	1	2	0	11	7%		
Other Improper Driving	0	2	2	4	0	1	9	6%		
Excessive Speed	0	1	0	3	3	0	7	4%		
Following Too Closely	0	3	0	1	2	1	7	4%		
Avoid No Contact - Vehicle	1	1	0	3	1	0	6	4%		
Missing Data	0	2	0	0	1	1	4	3%		
Failed to Yield Right of Way	0	0	2	1	0	1	4	3%		
Other Mechanical Defect	1	2	0	1	0	0	4	3%		
Made Improper Turn	1	0	0	0	2	0	3	2%		
Speed Too Fast for Conditions	1	0	0	2	0	0	3	2%		
Avoid No Contact - Other	0	1	0	1	0	0	2	1%		
Passed Stop Sign	0	1	1	0	0	0	2	1%		
Disregarded Traffic Signal	0	0	0	0	1	0	1	1%		
Road Defect	0	0	0	0	1	0	1	1%		
Vehicle Skidded Before Brake	0	0	1	0	0	0	1	1%		
Defective Steering	1	0	0	0	0	0	1	1%		
Inadequate Brakes	0	1	0	0	0	0	1	1%		
Improper Overtaking	0	0	1	0	0	0	1	1%		
Total Drivers	14	52	21	38	26	8	159	100%		

Only mopeds/scooters with a registered VIN in the NHTSA vPIC database can be identified as mopeds/scooters. Many are foreign.

Unithed DeprSARY AM (LIGN: 30)DAMENIG (SM: 140)ATENCOM (SM: 140)LIT NICH (SM: 140)Dep dual TotalAnti-Total TotalModel Wester Wes	Motorcycle Crashes, 2017										
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Sport Motorcycle Drivers in Crashes, 2017										
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Shiprock, NM. Photo by Pierce Martin, CC BY 2.0.





#### Jessica Bloom, jbloom1@unm.edu

University of New Mexico Geospatial and Population Studies (GPS) Traffic Research Unit (TRU)

> Annually Published Motorcycle Crash Data Website: gps.unm.edu