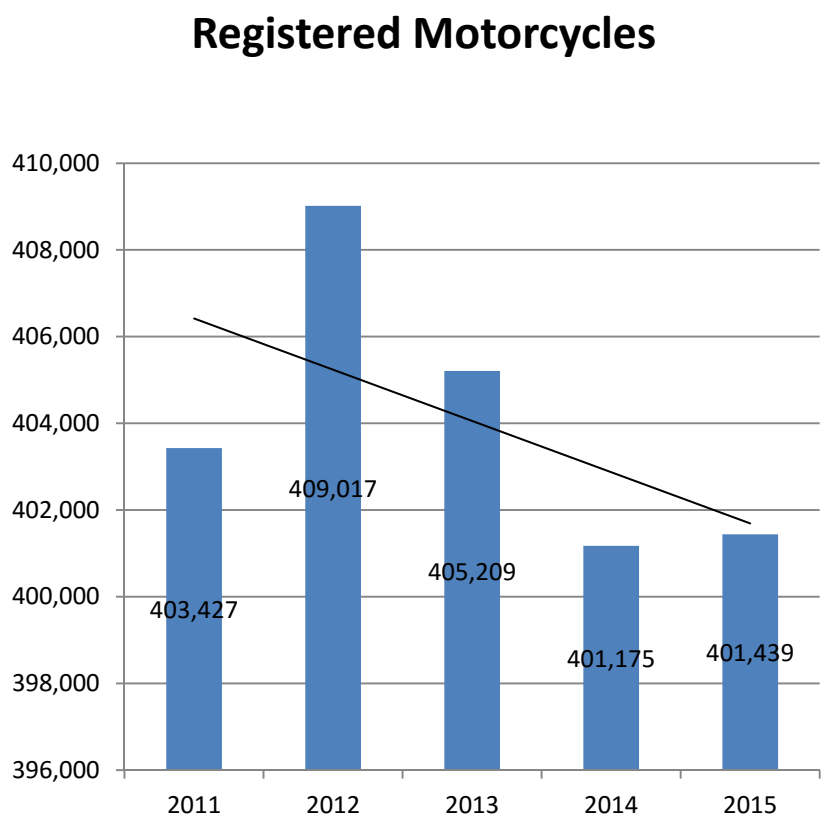
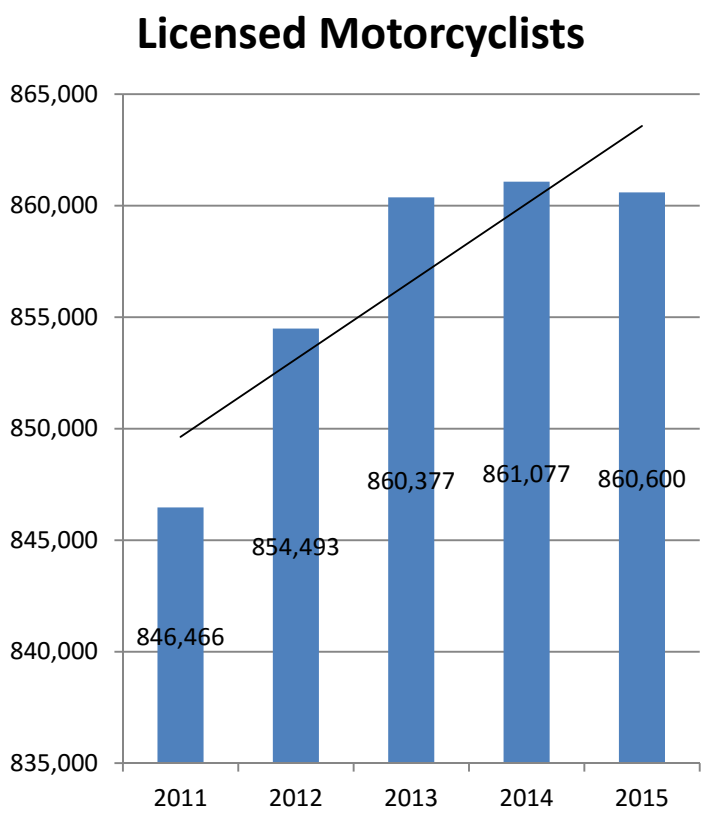
PA Motorcycle Drivers

Hector Eide, Project Manager
PA Motorcycle Safety Program

PA SAFETY SYMPOSIUM
toward zero deaths

Motorcycles and Drivers





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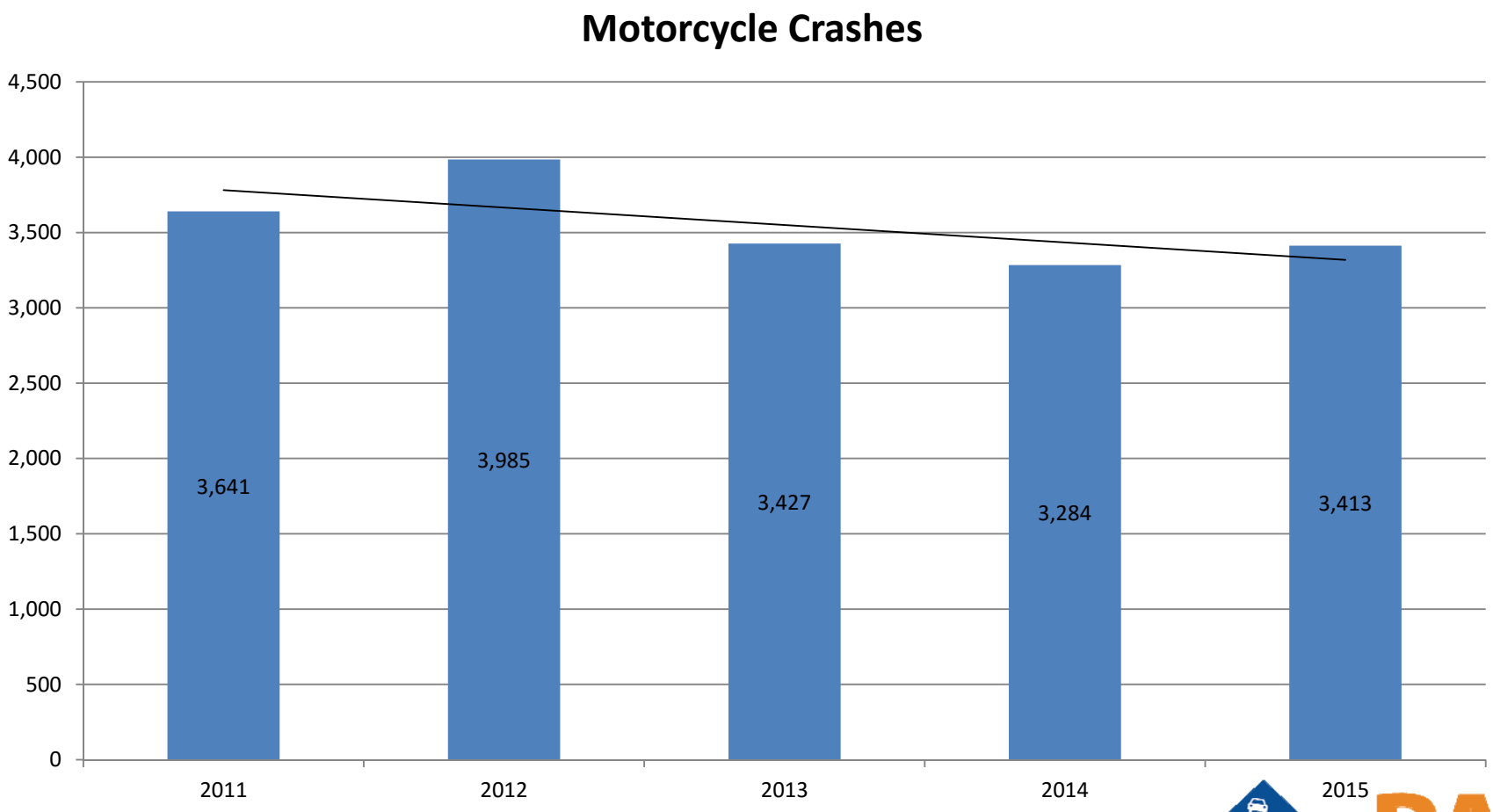
Non-Lethal



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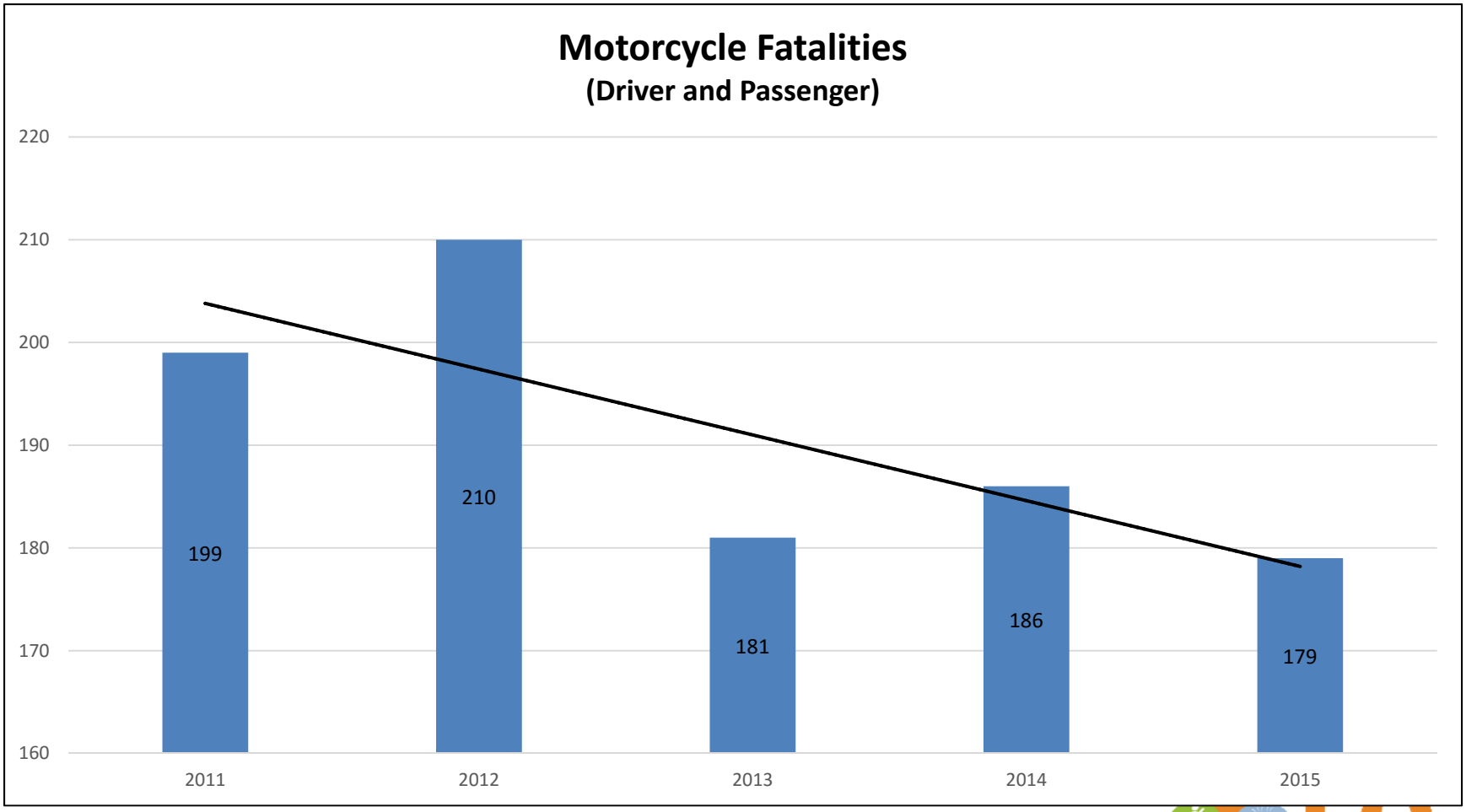
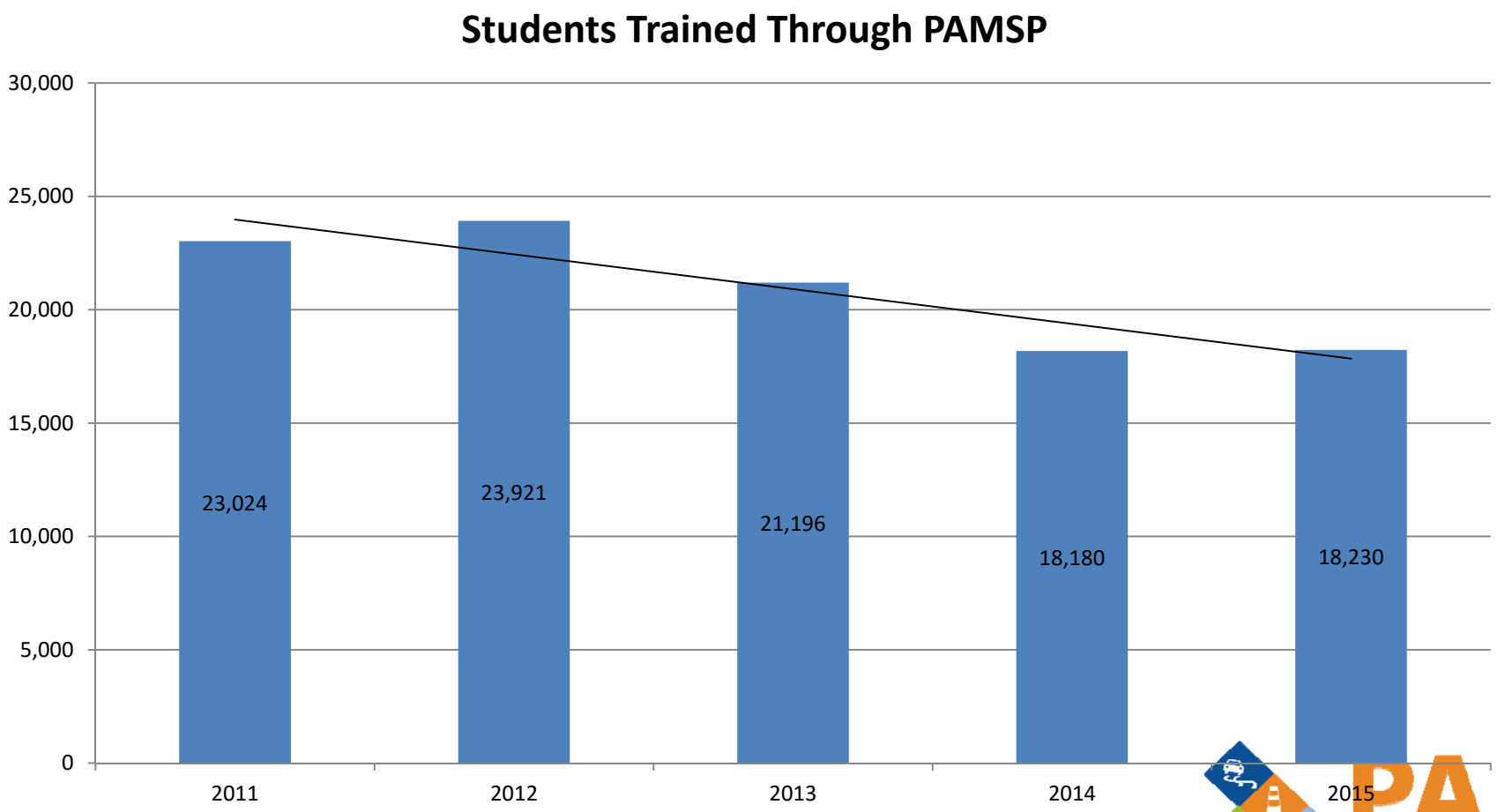
Deaths

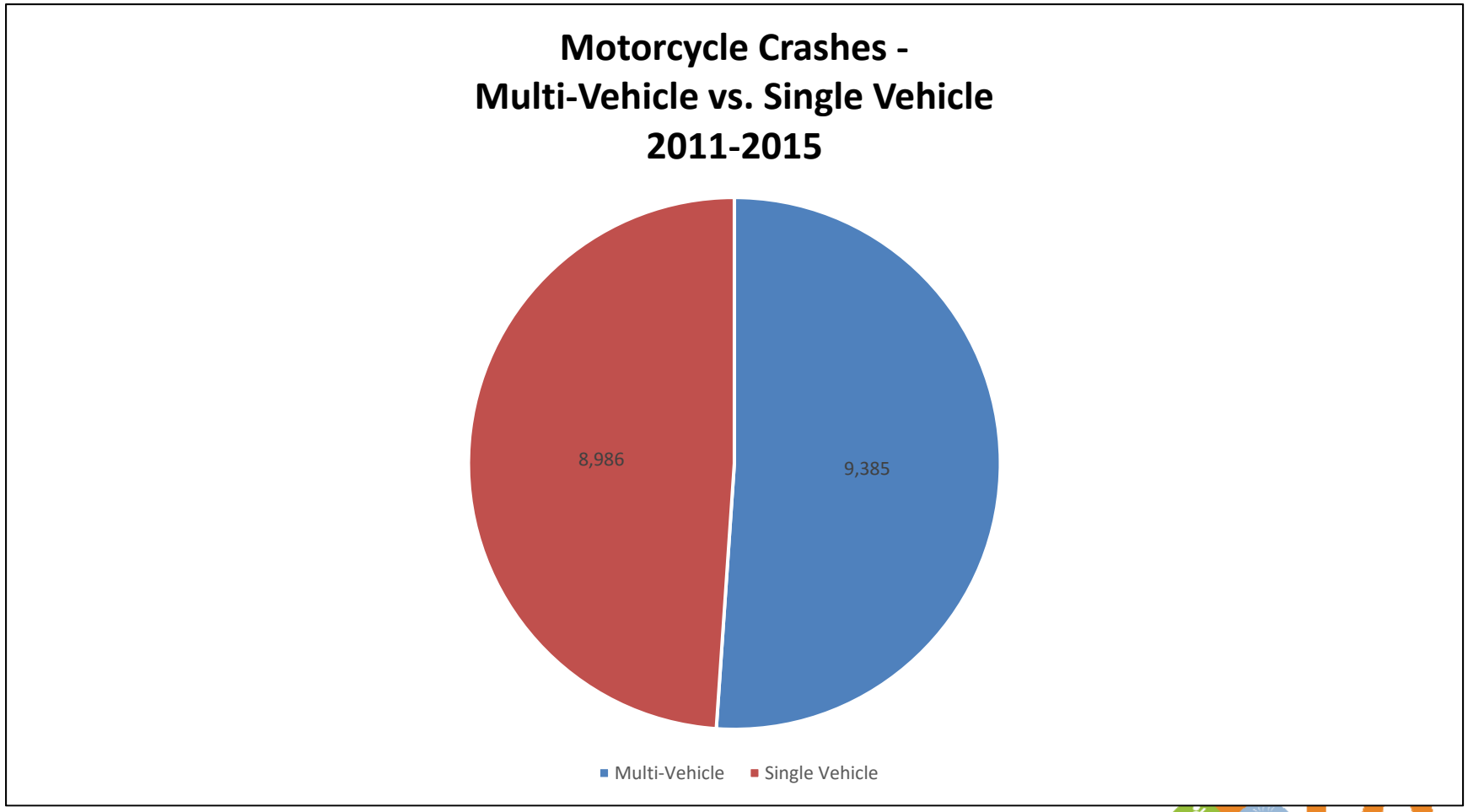


SAFETY SYMPOSIUM
toward zero deaths

Training and Education



PA SAFETY SYMPOSIUM toward zero deaths



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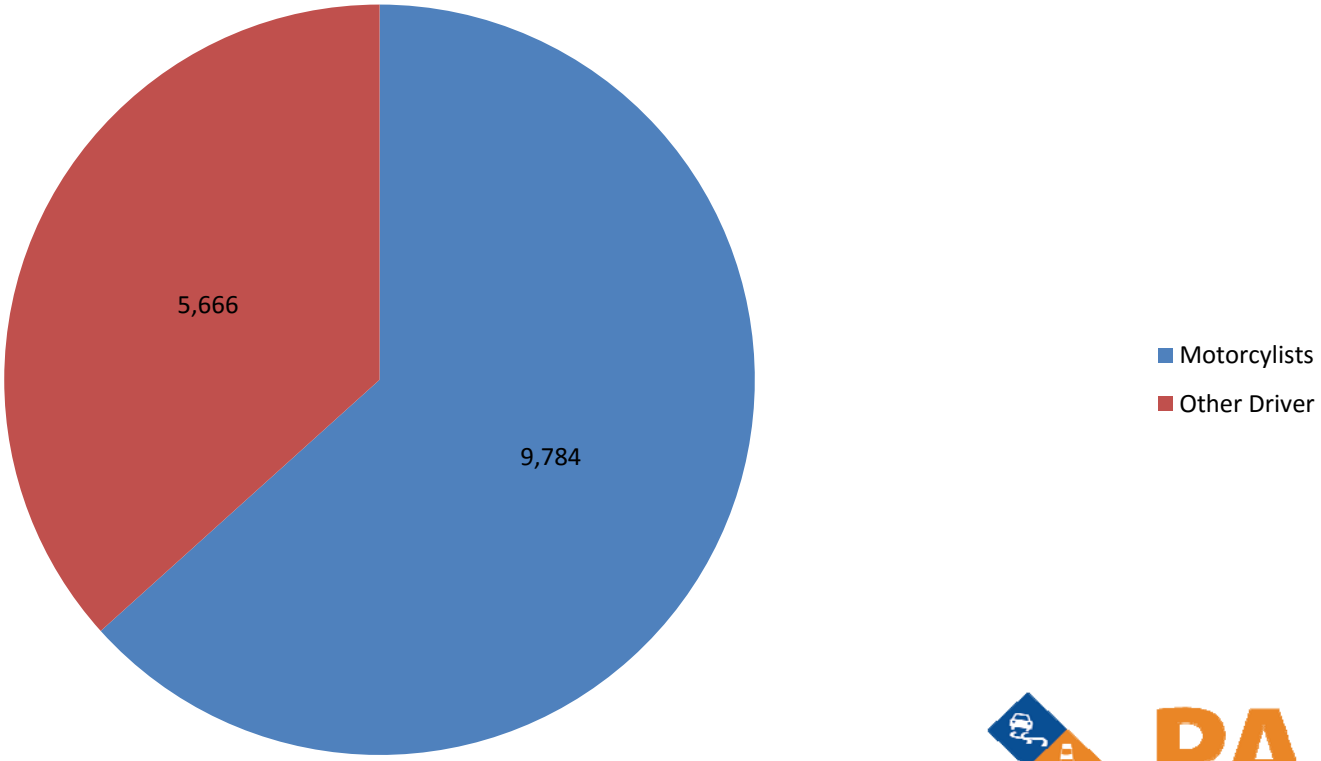
Motorcyclist Crashes by Prime Causation Categories - Motorcyclists vs. Other Driver 2011-2015



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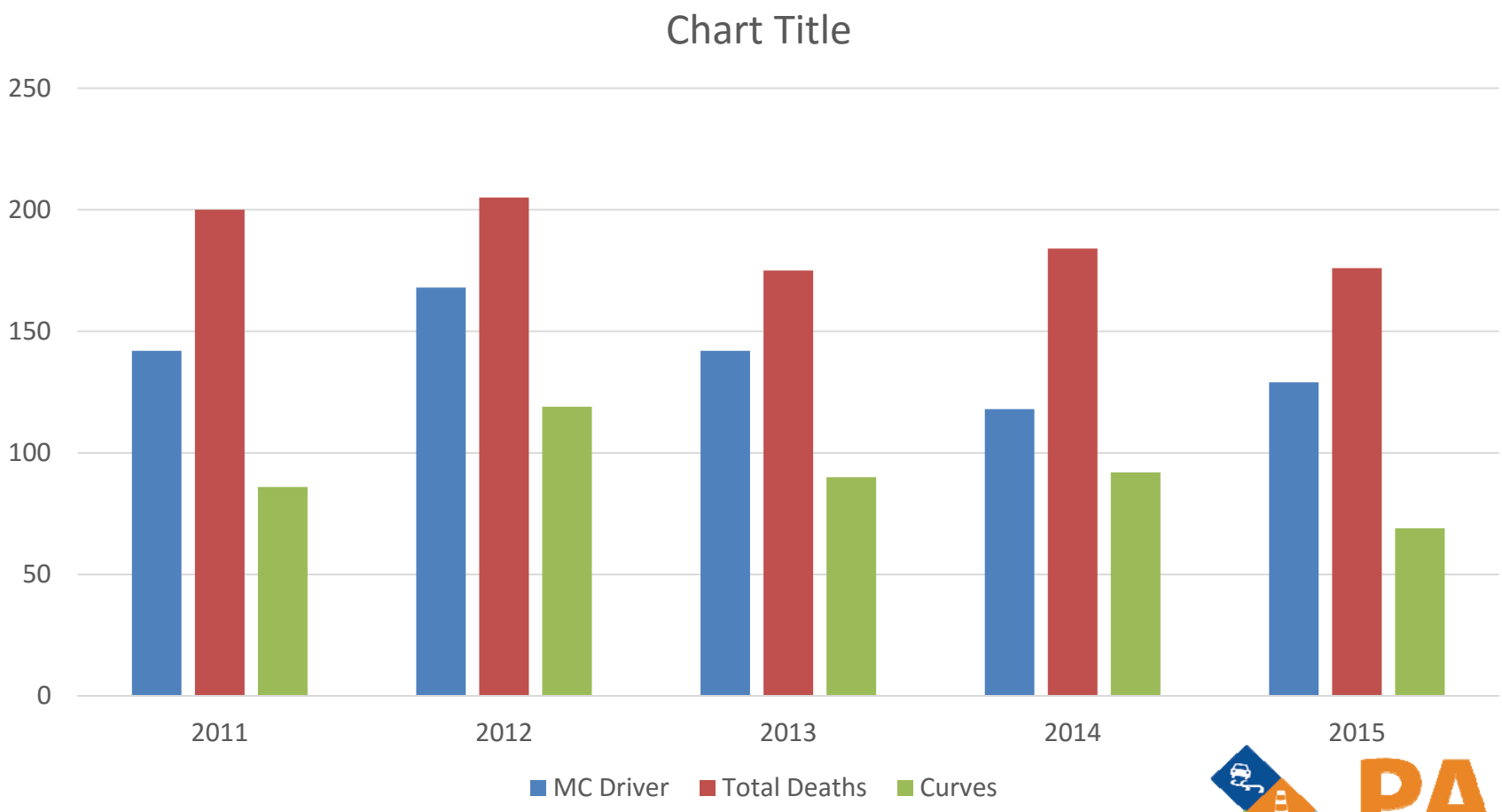
MC Driver Drinking Deaths & Morbidity



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Caution—Details are important

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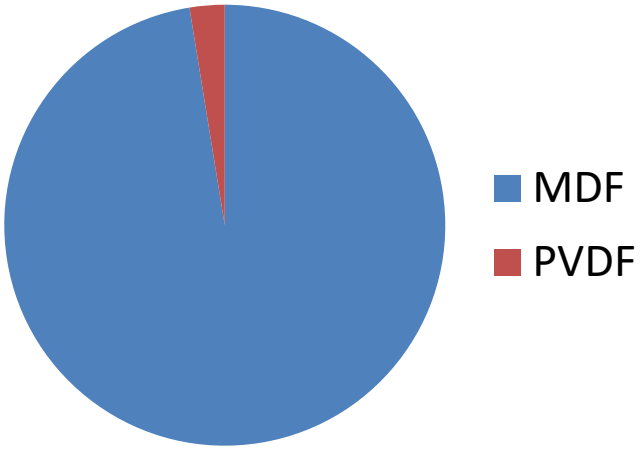
Passenger Car VS Motorcycle Danger

MotorcycleInstitute.org/Data

Current Motorcycle Driver Relative Danger Estimate Compiled by MotorcycleInstitute.org

Year[1]	Motorcycle Driver Fatalities (MDF)[2]	Motorcycle Million VMT[3]	MDF per Million VMT		Passenger Vehicle Driver Fatalities (PVDF)[4]	All Light Duty[5] Vehicles Million VMT[3]	PVDF per Million VMT	edited 07.06.2016
2012	4652	21,298	0.2184		15,842	2,664,445	0.005946	
2013	4423	20,366	0.2172		15,495	2,677,730	0.005787	
2014	4311	19,970	0.2159		15,416	2,710,556	0.005687	
	MDF per Million VMT	PVDF per Million VMT	**Relative Danger = (MDF per Million VMT)/(PVDF per Million VMT)**					
2012	0.2184	0.005946	37					
2013	0.2172	0.005787	38					
2014	0.2159	0.005687	38					
AVE =	***38 times more dangerous*** *to drive a Motorcycle compared to a Passenger Vehicle, mile for mile.*							
	Notes:							
	1. The Federal HighWay Administration (FHWA) changed the methodology of calculating motorcycle VMT in August 2011.							
	This is why we start with 2012 Data, above, see:				http://www-fars.nhtsa.dot.gov/common/FARS%20Encyclopedia%20VMT%20Changes.pdf			
	2. For MDF data, please see NHTSA FARS table here:				http://www.motorcycleinstitute.org/docs/data/driver/TMDF-1991-2014.pdf			
	3. For 2013-2014 and 2012-2013 VMT data. please see FHWA VM-1 Tables here:							
	http://www.fhwa.dot.gov/policyinformation/statistics/2014/vm1.cfm							
	http://www.fhwa.dot.gov/policyinformation/statistics/2013/vm1.cfm							
	4. For PVDF data, please see NHTSA FARS table here:							
	http://www.motorcycleinstitute.org/docs/data/driver/TPVDF-1991-2014.pdf							
	5. Methodology has been revised to include all light duty vehicles. Previously, only light duty short wheelbase VMT was used.							

Danger Ratio



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4 Year Average Fatalities per Million Population

State	MC Driver Fatalities	Passenger Car Fatalities	DangerOmeter Rank 2015	DangerOmeter Rank 2014
Pennsylvania	14.94	82.75	29	30
New Jersey	6.95	55.72	1	4
Florida	26.74	113.01	50	50
Hawaii	21.93	56.96	51	51
California	12.53	69.61	23	26

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Motorcycle Safety Program

- Customer Focused
- Continuous Process Improvements
- Fiduciary Role

PA SAFETY SYMPOSIUM toward zero deaths

Motorcycle Safety Program

- ✓ Alternative Course Scheduling
- ✓ Courses Now Available Year Round
- ✓ Diversified Training Motorcycle Fleet—S, M, L
- ✓ Centralized Computer Management System

PA SAFETY SYMPOSIUM toward zero deaths

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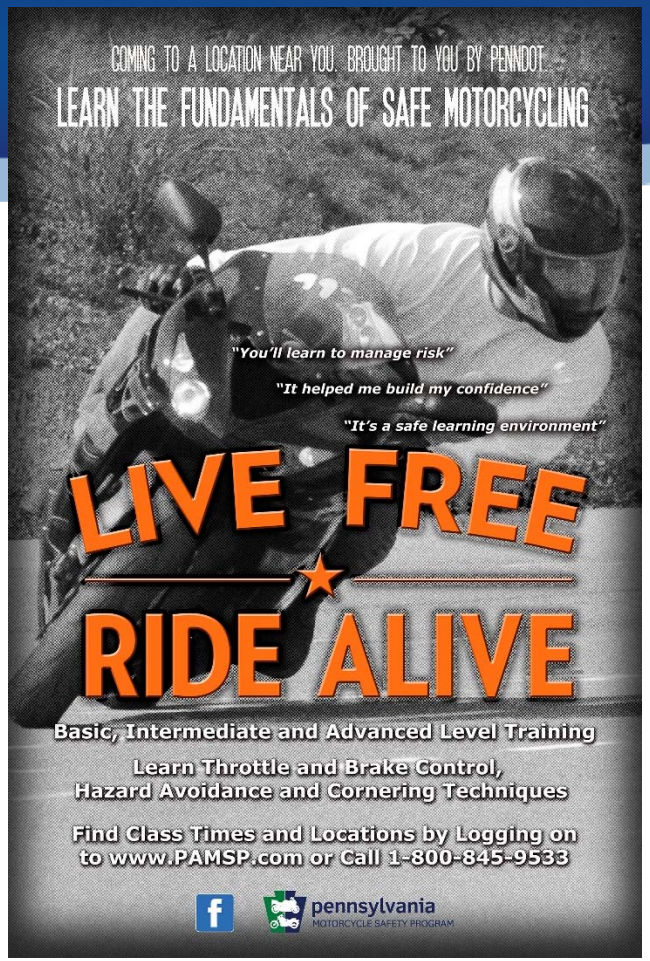
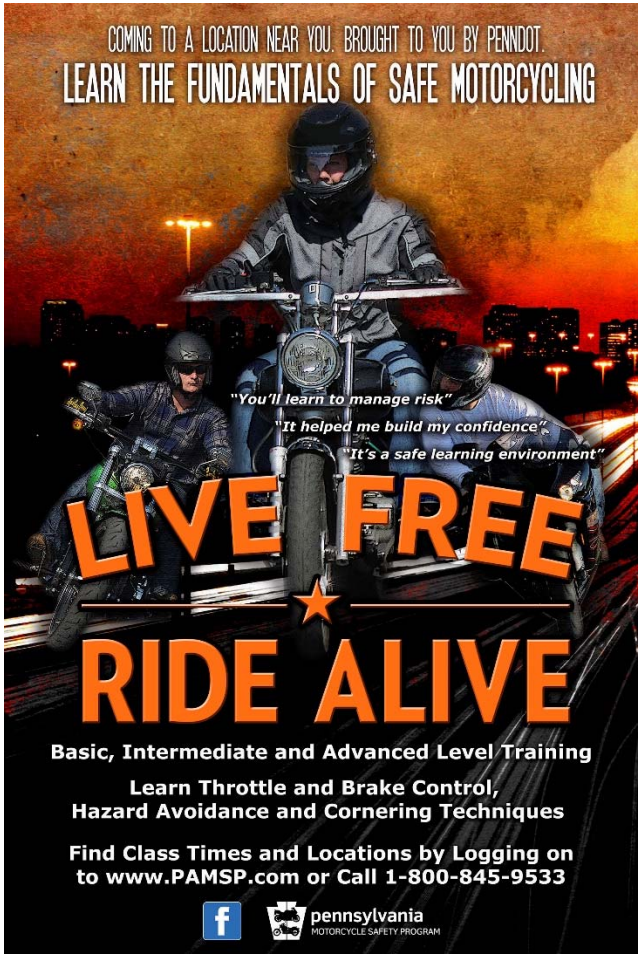
Marketing





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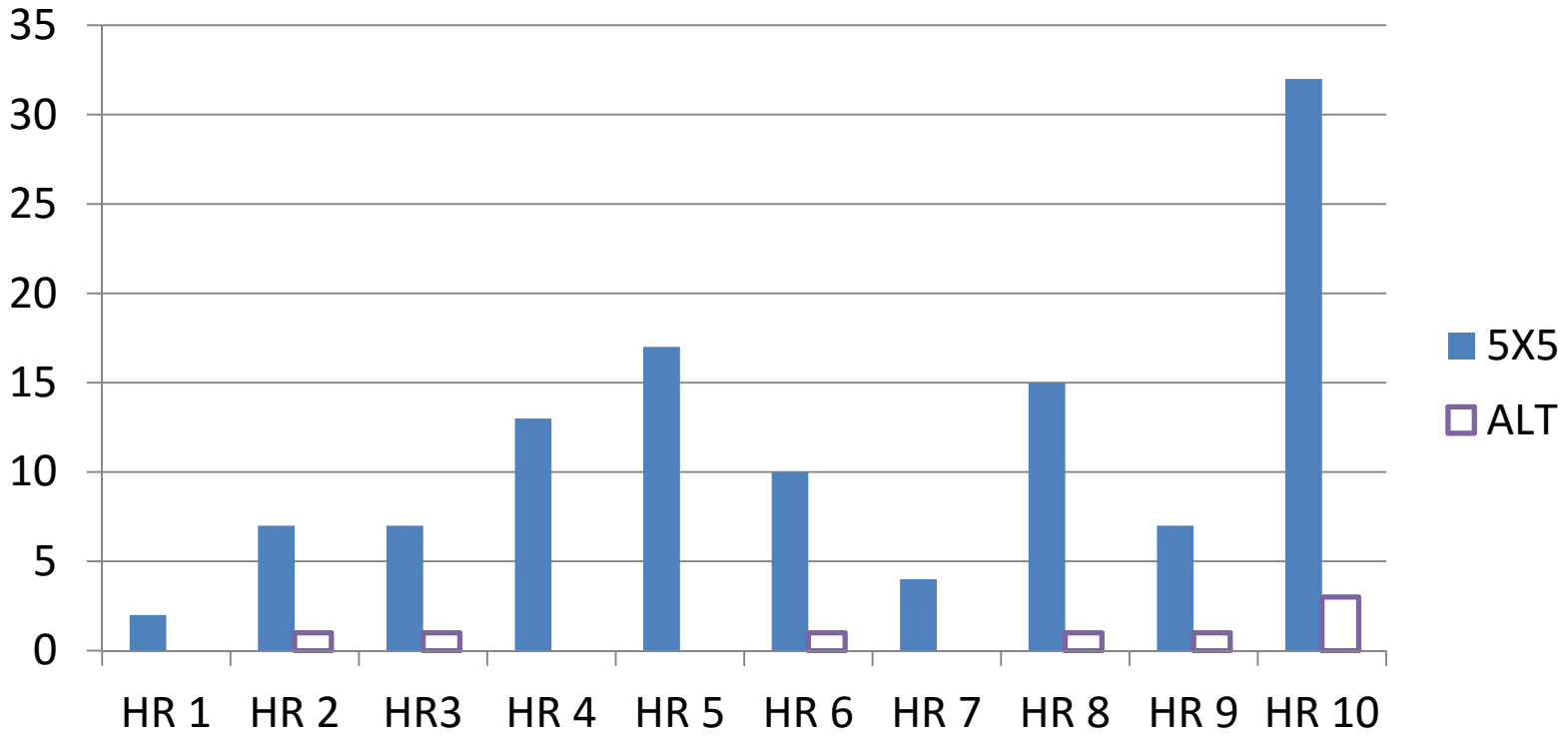
toward zero deaths

Improved Course Safety



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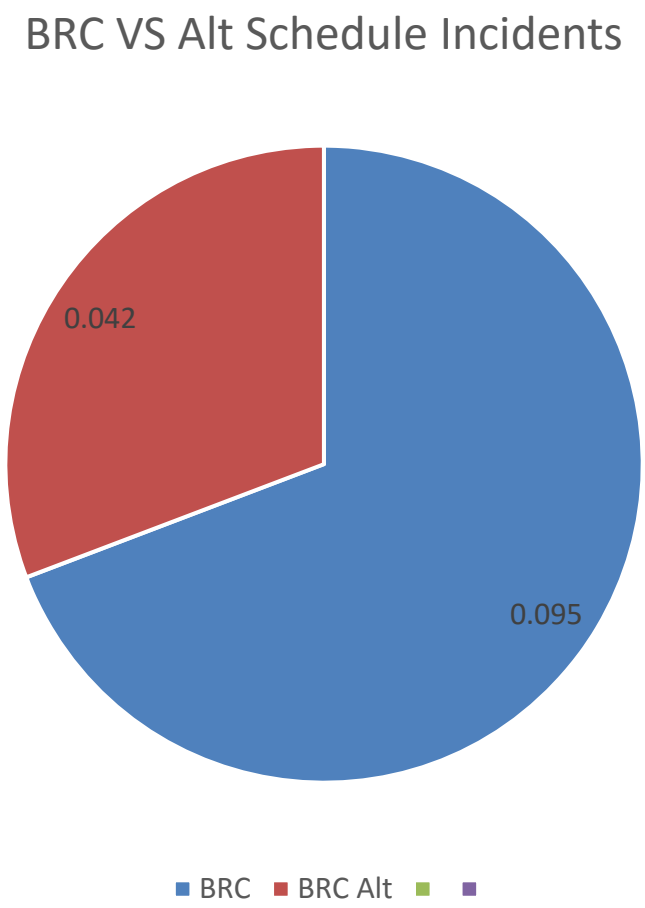
Improved Course Safety



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Overview

MotorcycleInstitute.org/Data

Pennsylvania 2015
Motorcycle Crash Fatalities

2015 PA Fatalities (Everybody) from Motorcycle Crashes on Public Roadways (September 2016 FARS File)	Motorcycle (Two-Wheeled Street)	Moped (motor-ized Bicycle)	Three-wheel Motorcycle Or Moped - Not All-Terrain Vehicle	Off-road Motorcycle (2-wheel)	Other Motored Cycle Type (mini-bikes, scooters, pocket Bikes)	Unknown Motored Cycle Type	Total for Row	Not on Motorcycle-In-Transport (such as pedestrians killed in MC crash)	Total Fatalities[2] (Everybody) in Motorcycle Crashes on Public Roadways
Driver[1] of a Motorcycle-In-Transport	165	1	0	3	1	0	170		
Passenger[1] of a Motorcycle-In-Transport	6	0	1	1	0	0	8		
Unknown Occupant[1] Type on a Motorcycle-In-Transport	0	0	0	0	0	0	0		
Total Motorcycle Occupant[1] Fatalities	171	1	1	4	1	0	178		
Non-Occupant of a Motorcycle-In-Transport								0	
		Total Fatalities[2] (Everybody) in Motorcycle Crashes on Public Roadways =							178

Source: Queries of 2015 NHTSA Fatality Analysis Reporting System (FARS)
FARS File Release September 2016

1. Motorcyclists are drivers and passengers, i.e. the occupants, riding on Motorcycles-In-Transport.
2. A motorcycle crash is any crash that involves one or more motorcycles. Motorcycle crash fatalities include everybody fatally injured, whether riding on the motorcycle-in-transport or not. However, about 90% of the fatalities in motorcycle crashes are the motorcycle drivers. Other examples of fatalities are pedestrians, people riding in cars, and bicyclists receiving fatal injuries during the motorcycle crash.

PA SAFETY SYMPOSIUM toward zero deaths

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