

Summary of Moped/Scooter Crashes in North Carolina

Bevan Kirley

University of North Carolina
Highway Safety Research Center

What is a Moped?

Moped = motorized
pedalcycle (bicycle)
– Uncommon today

Now used to describe low-
speed scooters.



Moped vs. Scooter

Scooter = motorcycle with step-through frame and a platform for the operator's feet.



In NC:

Moped = Scooter with engine
< 50 cc and maximum speed of
30 mph

Scooter = Scooter with larger
engine/higher speed

Applicable Laws – Mopeds vs Scooters

	Moped	Scooter
License	No	Yes
Registration	No	Yes
Insurance	No	Yes
Helmet	Yes	Yes

“Moped”



2014 Yamaha Zuma 50F

Scooter



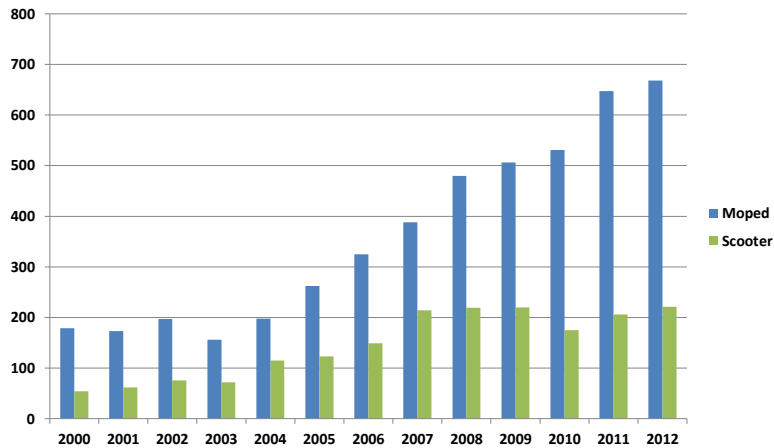
2014 Yamaha Zuma 125

Engine Size	49 cc	125 cc
Helmet	Yes	Yes
License	No	Yes
Registration	No	Yes
Insurance	No	Yes
Max Speed	~ 30 mph	~ 50-60 mph

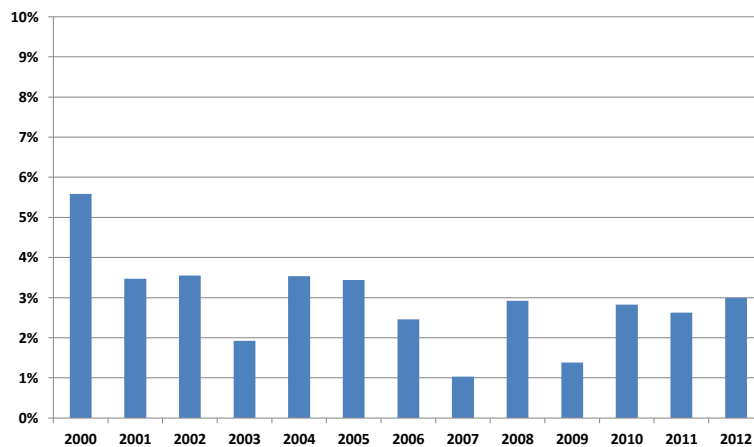
Which is a “moped”?



Moped and Scooter Crashes, 2000-2012



Proportion of Moped Crashes with a Fatality, 2000-2012



Fatalities and Injuries of Moped Riders age <18

Year	# Fatalities	# Injuries
2000	0	3
2001	1	3
2002	1	5
2003	0	0
2004	2	3
2005	0	5
2006	0	7
2007	0	4
2008	0	2
2009	1	6
2010	0	1
2011	0	4
2012	0	2
Total	5	45

Fatalities and Injuries of Scooter Riders age <18

Year	# Fatalities	# Injuries
2000	0	0
2001	0	2
2002	1	0
2003	0	0
2004	2	2
2005	0	2
2006	1	2
2007	0	9
2008	0	4
2009	0	4
2010	0	3
2011	0	2
2012	0	5
Total	4	35

Age of Fatally Injured Moped Riders

Age	2009	2010	2011	2012
<18	1	0	0	0
18-20	0	1	0	2
21-30	3	1	1	2
31-40	1	4	5	0
41-50	1	4	5	9
51+	1	5	6	7
Total	7	15	17	20

Summary

- Mopeds vs. Scooters
- Moped crashes have increased
- The proportion of moped crashes with a fatality has stayed the same
- Fatalities are generally in adult population