

New York City Cycling Risk

Changes in cyclist safety relative to bicycle use in New York City
2000 - 2014



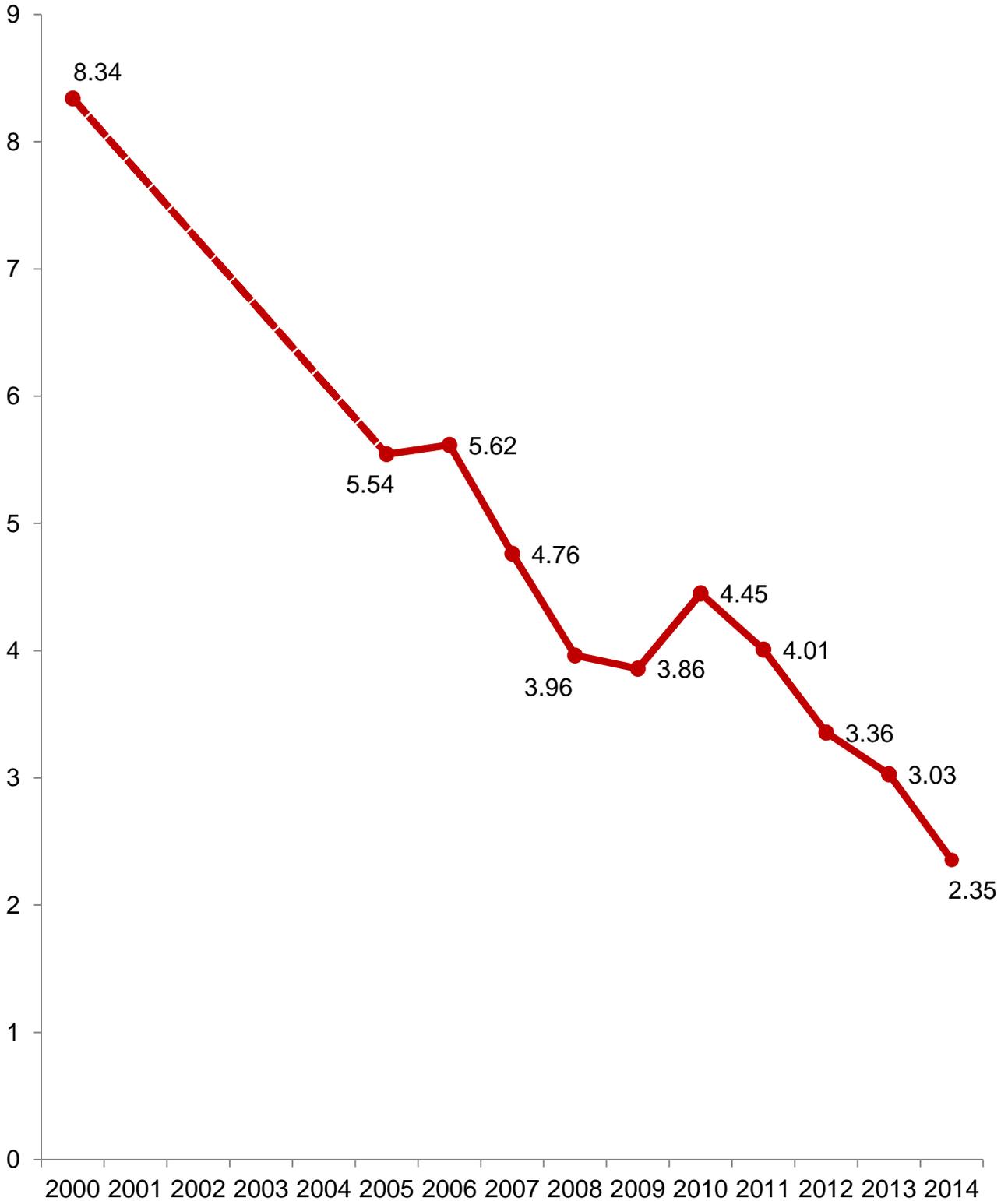
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Commissioner

Disclaimer:

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New York City Cycling Risk: Bicyclist Severe Injuries and Fatalities (KSI) per Million Cycling Trips



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Year	Bicyclist Fatalities	Bicyclist Severe Injuries	Bicyclist Fatalities and Severe Injuries (KSI)	Estimated Cycling Trips (Millions)	KSI per Million Trips
2000	18	440	458	55	8.34
2005	22	322	344	62	5.54
2006	18	351	369	66	5.62
2007	24	341	365	77	4.76
2008	22	326	348	88	3.96
2009	12	326	338	88	3.86
2010	19	387	406	91	4.45
2011	22	373	395	99	4.01
2012	18	375	393	117	3.36
2013	12	408	420	139	3.03
2014	20	341	361	153	2.35

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New York City Cycling Risk, expressed as KSI per Million Trips, is measured as the number of bicyclists killed or severely injured (“KSI”) in motor vehicle traffic crashes per million cycling trips per year. This method describes changes in cyclist safety over the past decade while accounting for the increase in bicycle use in New York City.

The decrease in the Cycling Risk from a high of 8.34 KSI per Million Trips in 2000 to 2.35 in 2014 represents a **72% decrease in the average risk of a serious injury** experienced by cyclists in New York City.

NYCDOT uses the sum of bicyclist fatalities and severe injuries for several reasons. Severe injuries (Type A injuries, as reported by responding officers and classified by the NYS Dept. of Motor Vehicles) generally receive medical attention and are more likely than other injuries to result in medically serious outcomes such as long-term disabilities. Severe injuries are reported more consistently than non-severe injuries. Bicyclist fatalities vary widely from year to year; bicyclist severe injuries are more consistent. Summing severe injuries and fatalities allows observation of year-to-year changes in the number of serious bicyclist crashes.

Sources:

- The estimate of annual cycling trips is based on the Daily Cycling Trips Estimate from American Community Survey Journey to Work data: <http://www.nyc.gov/html/dot/downloads/pdf/cycling-in-the-city.pdf>
- Bicyclist fatalities: NYCDOT-NYPD Reconciled Traffic Fatality Database
- Bicyclist severe injuries: NYSDOT SIMS/ALIS Crash Database (as of 10/13/15)
 - Type A injuries reported in crashes involving bicycles.