

School Zone Collision Analysis
Long Beach, California
2003 to 2011

All Surface Streets

July 20, 2015

All Surface Streets 2003 - 2011	School Zones	Surface Streets, Non- School Zones	Interpretation for 2003 - 2011 Period
# Collisions	1,290	12,064	Collisions rates were 56.1% higher in school zones than on all other surface streets in Long Beach.
Length of Streets (feet)	376,608	5,498,502	
Length of Streets (miles)	71.33	1,041.38	
Collision Rate / Mile of Street	18.09	11.58	
Collision Rate / Mile of Street / Year	2.01	1.29	
Collisions Above Background	463.70		
Collisions Above Background / Year	51.52		
# People Killed	18	169	The death rate for collisions were 55.5% higher in school zones than for all other surface streets in Long Beach.
# People Killed / Mile of Street	0.25	0.16	
# People Killed / Mile of Street / Year	0.03	0.02	
# People Killed Above Background	6.42		
# People Killed Above Background / Year	0.71		
# People Injured	1,750	16,007	The injury rate for collisions were 59.6% higher in school zones than for all other surface streets in Long Beach.
# People Injured / Mile of Street	24.53	15.37	
# People Injured / Mile of Street / Year	2.73	1.71	
# People Injured Above Background	653.64		
# People Injured Above Background / Year	72.63		
# Collisions with Pedestrians	237	1,826	The collision rate involving pedestrians was 89.5% higher in school zones than for all other surface streets in Long Beach.
# Collisions with Pedestrians / Mile of Street	3.32	1.75	
# Collisions with Pedestrians / Mile of Street / Year	0.37	0.19	
# Collisions with Pedestrians Above Background	111.93		
# Collisions with Pedestrians Above Background / Year	12.44		
# Collisions with Bicycles	141	1,567	The collision rate involving bicycles was 31.4% higher in school zones than for all other surface streets in Long Beach.
# Collisions with Bicycles / Mile of Street	1.98	1.50	
# Collisions with Bicycles / Mile of Street / Year	0.22	0.17	
# Collisions with Bicycles Above Background	33.67		
# Collisions with Bicycles Above Background / Year	3.74		
# Collisions with Motorcycles	57	562	The collision rate involving motorcycles was 48.1% higher in school zones than for all other surface streets in Long Beach.
# Collisions with Motorcycles / Mile of Street	0.80	0.54	
# Collisions with Motorcycles / Mile of Street / Year	0.09	0.06	
# Collisions with Motorcycles Above Background	18.51		
# Collisions with Motorcycles Above Background / Year	2.06		

"Near Schools" = Within 150 feet of a school

"Residential" and "Near Residences" = Within 100 feet of a residentially-zoned parcel

Geocoded CHP Statewide Integrated Traffic Records System (SWITRS) Collision Data Obtained from <http://tims.berkeley.edu/> on February 5, 2014. The data includes only Collisions resulting in injury or death.

Records that were not geocoded within the geographic limits of the City of Long Beach were omitted.

Freeway collision records were filtered out using the PRIMARYRT field of the SWITRS database to remove values equal to "RT 710", "RT 71", "RT 91", "RT91", "RT 605", "RT 103", "RT 105", "RT 110", and "RT 22".

"2003 to 2011" means January 1, 2003, through December 31, 2011.

Incidents in red ("above background") are likely due to increases in traffic volume resulting from school activities.

All interpretations are based upon collision rates per distance of street.

Collision analysis performed by Greg Bishop, School Neighbors Association: info@schoolneighbors.com

Residential Surface Streets Only 2003 - 2011	Residential School Zones	Residential Surface Streets, Non-School Zones	Interpretation for 2003 - 2011 Period
# Collisions	778	12,576	Collisions occurred 8.1% more often on school-zone residential streets than for all other residential streets in Long Beach.
Length of Streets (feet)	236,791	4,138,139	
Length of Streets (miles)	44.85	783.74	
Collision Rate / Mile of Street	17.35	16.05	
Collision Rate / Mile of Street / Year	1.93	1.78	
Collisions Above Background	58.38		
Collisions Above Background / Year	6.49		
# People Killed	7	62	The death rate for collisions on school-zone residential streets was 97.3% higher than for all other residential streets in Long Beach. The collision death rate on school-zone residential streets near schools is nearly double than for non-school-zone residential streets.
# People Killed / Mile of Street	0.16	0.08	
# People Killed / Mile of Street / Year	0.02	0.01	
# People Killed Above Background	3.45		
# People Killed Above Background / Year	0.38		
# People Injured	668	6,411	The injury rate for collisions on school-zone residential streets was 82.1% higher than for all other residential streets in Long Beach.
# People Injured / Mile of Street	14.90	8.18	
# People Injured / Mile of Street / Year	1.66	0.91	
# People Injured Above Background	301.15		
# People Injured Above Background / Year	33.46		
# Collisions with Pedestrians	102	799	The collision rate involving pedestrians on school-zone residential streets was 123.1% higher than for all other residential street segments in Long Beach. For a given length of street, collisions with pedestrians occurred more than twice as often next to schools.
# Collisions with Pedestrians / Mile of Street	2.27	1.02	
# Collisions with Pedestrians / Mile of Street / Year	0.25	0.11	
# Collisions with Pedestrians Above Background	56.28		
# Collisions with Pedestrians Above Background / Year	6.25		
# Collisions with Bicycles	51	682	The collision rate involving bicycles on school-zone residential streets was 30.7% higher than for all other residential street segments in Long Beach.
# Collisions with Bicycles / Mile of Street	1.14	0.87	
# Collisions with Bicycles / Mile of Street / Year	0.13	0.10	
# Collisions with Bicycles Above Background	11.97		
# Collisions with Bicycles Above Background / Year	1.33		
# Collisions with Motorcycles	20	229	The collision rate involving motorcycles in school zones was 52.6% higher than for all other residential street segments in Long Beach.
# Collisions with Motorcycles / Mile of Street	0.45	0.29	
# Collisions with Motorcycles / Mile of Street / Year	0.05	0.03	
# Collisions with Motorcycles Above Background	6.90		
# Collisions with Motorcycles Above Background / Year	0.77		

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