

Crash History

The total intersection crashes (broken out by type) are illustrated below. In addition, the overall intersection crash rate (expressed in number of crashes per million entering vehicles) is provided. A typical average crash rate for a signalized intersection in an urban environment is between 0.8 and 1.0.

Optimized traffic signal timing may often reduce rear-end and right angle type crashes.

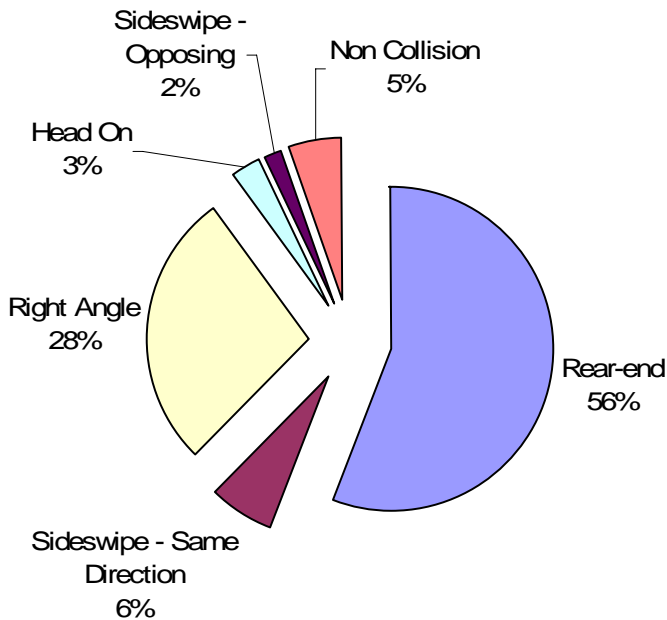
Intersection	Rear-end	Sideswipe - Same Direction	Left Turn into On-coming Traffic	Ran Off Road - Left Side	Right Angle	Right Turn into Cross Street Traffic	Ran Off Road - Right Side	Head On	Sideswipe - Opposing	Non Collision	TOTAL	CRASH RATE
Columbia Rd @ 32nd Ave	24	3			10					3	40	1.14
Columbia Rd @ 28th Ave	3				4			2	1		10	0.44
Columbia Rd @ 24th Ave	7				8			1	1	1	18	0.58
Columbia Rd @ 17th Ave	25	3			4			1			33	1.08
Columbia Rd @ 13th Ave	10	3			7				1	1	22	0.79
Columbia Rd @ 11th Ave	12				2						14	0.47
Columbia Rd @ 2nd Ave	12	1			10			1		3	27	1.06
Columbia Rd @ University Ave	10	2			7			1		1	21	0.82
Columbia Rd @ 6th Ave ¹	2									1	3	0.16
Total	105	12	0	0	52	0	0	6	3	10	188	0.76

Source: City of Grand Forks, data dated years 2007-mid 2009

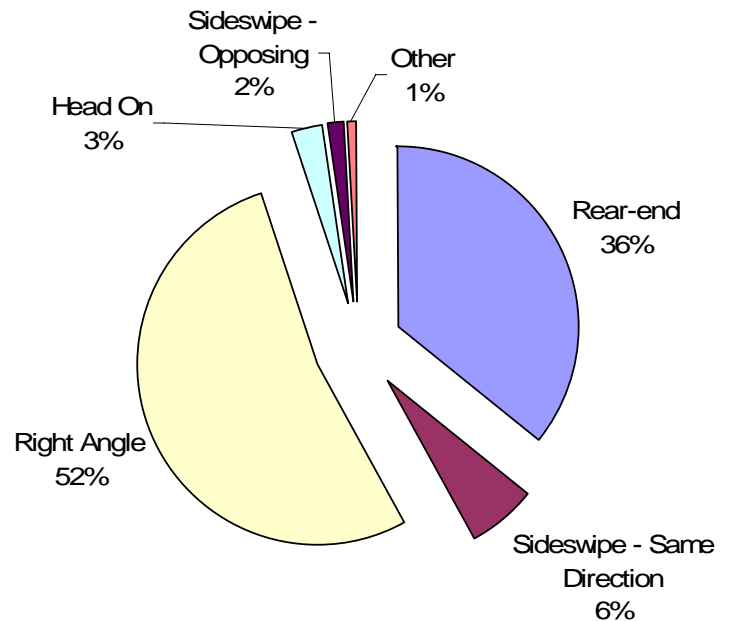
Crash Rate of 1.26 Before Re-timing in July 2008

Crash Rate = 0.93 After Re-timing in July 2008

Columbia Road¹



Grand Forks Citywide Average¹



¹Source: City of Grand Forks, data dated years 2007-mid 2009.