

# Appendix A: Relevant Collision Typologies

The crash types of the U. S. Federal Highway Administration’s typology are listed here, along with those of the system developed for the City of Toronto Bicycle Collision Analysis Project. Also listed are the “impact types” of the Toronto Police Services scheme for classifying motor vehicle collisions, used in MVA reports.

<u>FHWA</u>		<u>City of Toronto Collision Study</u>	
1	Ride Out At Residential Driveway	1	Drive Out At Controlled Intersection
2	Ride Out At Commercial Driveway	2	Drive Out From Lane or Driveway
3	Ride Out From Sidewalk	3	Motorist Reversing
4	Ride Out At Mid-block	4	Motorist Right On Red
5	Ride Out At Stop Sign	5	Motorist Right Turn-Other
6	Trapped	6	Cyclist Strikes Open Vehicle Door
7	Multiple Threat	7	Cyclist Strikes Stopped Vehicle-Other
8	Drive Out At Mid-block	8	Motorist Left Turn - Facing Cyclist
9	Drive Out At Stop Sign	9	Motorist Left Turn In Front Of Cyclist
10	Unknown	10	Motorist Overtaking
11	Right On Red	11	Ride Out At Mid-block
12	Backing	12	Ride Out At Controlled Intersection
13	Drive Through	13	Ride Out From Sidewalk
14	Motorist Overtaking Failed To Detect	14	Ride Out From Lane or Driveway
15	Motorist Lost Control	15	Wrong Way Cyclist
16	Motorist Overtaking - Counteractive Evasive Actions	16	Cyclist Left Turn In Front Of Traffic
17	Motorist Overtaking - Misjudged Space	17	Cyclist Left Turn - Facing Traffic
18	Motorist Overtaking - Bicyclist Path Obstructed	18	Cyclist Lost Control
19	Bicyclist Left Turn In Front Of Traffic	19	Cyclist Caught in Intersection
20	Bicyclist Left Turn - Facing Traffic	20	Cyclist Overtaking
21	Bicyclist Lost Control	21	Drive Into/Out of On-Street Parking
22	Bicyclist Right Turn	22	Other
23	Motorist Left Turn In Front Of Bicyclist	23	Unknown
24	Motorist Left Turn - Facing Bicyclist		
25	Motorist Right Turn		
26	Uncontrolled Intersection - Other		
27	Wrong Way Bicyclist		
28	Bicyclist Overtaking		
29	Wrong Way Motorist		
30	Non-Roadway		
31	Drive Out From On-Street Parking		
32	Weird		
33	Motorist Overtaking - Other		
34	Play Vehicle		
35	Bicyclist Strikes Parked Vehicle		
36	Drive Out At Intersection - Other		
37	Ride Out At Intersection - Other		
38	Controlled Intersection - Other		
			<u>Toronto Police Services</u>
			<b>Initial Impact Type</b>
		01	Approaching
		02	Angle
		03	Rear end
		04	Sideswipe
		05	Turning movement
		06	Single Moving Vehicle & Unattended Vehicle
		07	Single Moving Vehicle-Other
		99	Other

This table shows how categories in the FHWA typology were combined, split, or deleted to create the Toronto typology. (See also: [www.tfhr.gov/safety/pedbike/ctanbike/ctanbike.htm](http://www.tfhr.gov/safety/pedbike/ctanbike/ctanbike.htm))

<u>Toronto Typology</u>	<u>FHWA Typology</u>
Drive Out At Controlled Intersection	Drive Out At Stop Sign Drive Through Drive Out At Intersection – Other Controlled Intersection – Other (a)
Drive Out From Lane or Driveway	Drive Out At Mid-block
Motorist Reversing	Backing
Motorist Right At Red Light	Right On Red
Motorist Right Turn (Not at Red Light)	Motorist Right Turn
Motorist Opens Vehicle Door in Cyclist's Path	Bicyclist Strikes Parked Vehicle (door open)
Cyclist Strikes Stopped Vehicle	Bicyclist Strikes Parked Vehicle (other)
Motorist Left Turn – Facing Cyclist	Motorist Left Turn - Facing Bicyclist
Motorist Left Turn – In Front Of Cyclist	Motorist Left Turn In Front Of Bicyclist
Motorist Overtaking	Motorist Overtaking Failed To Detect Motorist Overtaking - Counteractive Evasive Actions Motorist Overtaking - Misjudged Space Motorist Overtaking - Bicyclist Path Obstructed Motorist Overtaking - Other
Ride Out At Mid-block	Ride Out At Mid-block
Ride Out (on road) At Controlled Intersection	Ride Out At Stop Sign Ride Out At Intersection – Other (cyclist on road) Controlled Intersection – Other (b: cyclist on road)
Ride Out From Sidewalk (at intersection)	Ride Out At Intersection – Other (cyclist on sidewalk) Controlled Intersection – Other (c: cyclist on sidewalk)
Ride Out From Lane or Driveway	Ride Out At Residential Driveway Ride Out At Commercial Driveway Ride Out From Sidewalk
Wrong Way Cyclist	Wrong Way Bicyclist
Cyclist Left Turn In Front Of Traffic	Bicyclist Left Turn In Front Of Traffic
Cyclist Left Turn – Facing Traffic	Bicyclist Left Turn - Facing Traffic
Cyclist Lost Control	Bicyclist Lost Control
Cyclist Caught in Intersection	Trapped Multiple Threat
Cyclist Overtaking	Bicyclist Overtaking
Drive Into/Out of On-Street Parking	Drive Out From On-Street Parking
Other (Not Classified)	Motorist Lost Control Non-Roadway Weird Bicyclist Right Turn (while riding facing traffic) Wrong Way Motorist
Unknown	Unknown
Not represented in Toronto data:	Uncontrolled Intersection – Other Play Vehicle