

	Calculation References	Data			Sources
		Ontario	Canada	Calculation to Extrapolate Ontario Data to Canada	
Number of drivers' licenses	A	9,100,000	23,200,000	n/a	Ministry of Transportation (Ontario); Transport Canada Canadian Motor Vehicle Traffic Collision Statistics 2009 (Canada) Transport Canada Canadian Motor Vehicle Traffic Collision Statistics 2009 (Canada) Transport Canada Canadian Motor Vehicle Traffic Collision Statistics 2009 (Canada) Sterberg et al., 2000 (The Prevalence of Dementia - CSHA) CSHA, 1994 (The Prevalence of Dementia - CSHA) Statistics Canada, 2012 (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving") Statistics Canada, 2012 (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving") Dr. Mark Rapoport, Sunnybrook Health Sciences Centre (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving") Dr. Mark Rapoport, Sunnybrook Health Sciences Centre (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving") Queen's University Study (Toronto Star Article 21 February 2012 "Ontario says tougher rules expected for drivers with dementia") Graham, 1997; Ebly, 1995 (Methodological Contributions - CSHA presentation) Alzheimer Society ("What is Dementia")
Licensed drivers 65 and older (Canada)	B		3,250,000	n/a	
Licensed drivers 55-64 (Canada)	C		3,650,000	n/a	
% of dementia undiagnosed in community	D		67%	n/a	
% of dementia cases in community (vs. institution)	E		50%	n/a	
% over 65 diagnosed with dementia that have license	F		28%	n/a	
% of above who drove in past month	G		75%	n/a	
Licensed drivers diagnosed with dementia who drive	H		21%	n/a	
Drivers with diagnosed dementia in Ontario	I	40,000	102,000	Based on proportion of drivers' licenses (rounded)	
Subset of above involved in collisions	J	9,000	23,000	Based on proportion of drivers' licenses (rounded)	
Drivers with dementia in Ontario (corroborating source)	K	45,000	115,000	Based on proportion of drivers' licenses (rounded)	
Cognitive Impairment Not Dementia (CIND) factor	L		2	n/a	
% of diagnosed dementia occurring in patients 65 or older	M		86%	n/a	
Potential Number of Active Drivers (All Ages) with Cognitive Impairment					
Drivers with diagnosed dementia	I	40,000	102,000		
% of dementia undiagnosed in community	D	67%	67%		
Drivers with dementia (diagnosed & undiagnosed)	$N = I / (1-D)$	120,000	306,000		
Drivers with Cognitive Impairment Not Dementia (CIND)	$O = N \times L$	240,000	612,000		
Drivers with cognitive impairment (CIND or dementia)	$P = N + O$	360,000	918,000		
Potential Number of Collisions Involving Drivers (All Ages) with Cognitive Impairment					
Drivers with diagnosed dementia	I	40,000	102,000		
Subset of above involved in collisions	J	9,000	23,000		
Collision rate among drivers with dementia (rounded)	$Q = J / I$	23.0%	23.0%		
Collision rate in general population (rounded)	R	5.5%	5.5%	Assumed rate in Canada is the same as for Ontario	Eastern Ontario Health Unit, 2009 (Motor Vehicle Collisions in Eastern Ontario)