



	Calculation References	Data		Sources
		Ontario	United States	
Number of drivers' licenses	A	9,100,000	210,115,000	Ministry of Transportation (Ontario); Bureau of the Census (Distribution of Licensed Drivers - 2010)
Licensed drivers 65 and older (US)	B		33,700,000	Bureau of the Census (Distribution of Licensed Drivers - 2010)
Licensed drivers 55-64 (US)	C		34,300,000	Bureau of the Census (Distribution of Licensed Drivers - 2010)
% of dementia undiagnosed in community	D		67%	Sternberg et al., 2000 (The Prevalence of Dementia - CSHA)
% of dementia cases in community (vs. institution)	E		50%	CSHA, 1994 (The Prevalence of Dementia - CSHA)
% over 65 diagnosed with dementia that have license	F		28%	Statistics Canada, 2012 (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving")
% of above who drove in past month	G		75%	Statistics Canada, 2012 (Toronto Star Article 10 February 2012 "In an aging society, driving with dementia may be the new impaired driving")
Licensed drivers diagnosed with dementia who drive	H		21%	
Drivers with diagnosed dementia in Ontario	I	40,000	924,000	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")
Subset of above involved in collisions	J	9,000	208,000	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")
Cognitive Impairment Not Dementia (CIND) factor	K		1.42	Plassman, B.L., et al (Incidence of Dementia and Cognitive Impairment, Not Dementia in the United States)
% of diagnosed dementia occurring in patients 65 or older	L		86%	Alzheimer Society ("What is Dementia")
Potential Number of Active Drivers (All Ages) with Cognitive Impairment				
Drivers with diagnosed dementia	I		924,000	
% of dementia undiagnosed in community	D		67%	Sternberg et al., 2000 (The Prevalence of Dementia - CSHA)
Drivers with dementia (diagnosed & undiagnosed)	$N = I / (1-D)$		2,775,000	
Drivers with Cognitive Impairment Not Dementia (CIND)	$O = N \times L$		3,928,000	
Drivers with cognitive impairment (CIND or dementia)	$P = N + O$		6,703,000	
Potential Number of Collisions Involving Drivers (All Ages) with Cognitive Impairment				
Drivers with diagnosed dementia	I		924,000	
Subset of above involved in collisions	J		208,000	
Collision rate among drivers with dementia (rounded)	$Q = J / I$		23.0%	Corroborated by Science Daily excerpt of research by Rhode Island Hospital and Brown University ("people with mild dementia were nearly 4 times more likely to fail a road test...")
Collision rate in general population (rounded)	R		6.2%	Bureau of the Census, 2012 adjusted for age factors per Highway Loss Data Institute (IIHS affiliate)