

Table 1.0 Total External Transportation Costs in the Metro Vancouver Region (\$ CAD 2015)

Cost Component	Passenger Vehicle	Transit Bus	Skytrain	Cycle	Walk	Sum
Emissions	\$507,009,523	\$41,434,455	N.A.	N.A.	N.A.	\$548,443,978
Climate Change	\$240,428,310	\$3,461,787	N.A.	N.A.	N.A.	\$243,890,097
Road Infrastructure	\$840,651,164	\$14,437,994	N.A.	\$0	N.A.	\$855,089,158
Noise	\$155,612,997	\$7,248,388	\$4,429,000	N.A.	N.A.	\$167,290,386
Congestion	\$3,297,906,132*	\$41,911,292	N.A.	\$0	\$0	\$3,339,817,424
Accidents	\$2,911,210,261	\$37,299,888	↑	\$646,165	\$6,246,121	\$2,955,402,434
Operating	N.A.	\$357,569,921	\$201,207,410	\$0	\$0	\$558,777,331
Hydro	N.A.	N.A.	\$11,579,947	N.A.	N.A.	\$11,579,947
Capital	See Infrastructure	↑	\$275,582,038	↑	↑	\$275,582,038
Healthcare Savings	N.A.	N.A.	N.A.	-\$24,621,105	-\$40,376,708	-\$64,997,813
Productivity Gains	N.A.	N.A.	N.A.	-\$21,056,058	-\$34,481,135	-\$55,537,193
Fares and Taxes	-\$864,397,288	-\$326,186,480	-\$152,504,631	-\$10,955,092	N.A.	-\$1,354,043,491
Sum	\$7,088,421,100	\$177,177,245	\$340,293,764	-\$55,986,091	-\$68,611,722	\$7,481,294,296

↑ Denotes a cost/benefit that is unavailable in this analysis, yet significant enough to warrant future consideration

* Congestion Costs noted above are the “High Case Scenario”

Table 2.0 Summary of Total External Transportation Costs and Charges in the Metro Vancouver Region (\$ CAD 2015)

	Passenger Vehicle	Transit Bus	Skytrain	Cycle	Walk	Sum
Total Costs	\$7,952,818,387	\$503,363,724	\$492,798,395	\$646,165	\$6,246,121	\$8,955,872,792
Total Charges	\$864,397,288	\$326,186,480	\$152,504,631	\$56,632,255	\$74,857,842	\$1,474,578,497
Ratio of Costs:Charges	9.2:1	1.5:1	3.2:1	0.01:1	0.08:1	-

Table 3.0 The Fraction of Total External Transportation Costs and Charges by Mode in the Metro Vancouver Region

Mode	Total Costs	Total Charges
Passenger Vehicle	88.80%	58.62%
Transit Bus	5.62%	22.12%
Skytrain	5.50%	10.34%
Cycle	0.01%	3.84%
Walk	0.07%	5.08%

Table 4.0 Low and High Case of Annual Congestion Costs Estimated for Passenger Vehicles in the Metro Vancouver Region (\$ CAD 2015)

Congestion Costs	
Low Case	High Case
\$1,968,649,165	\$3,297,906,132