

Appendix 3.8 Trips and VKT for Hong Kong

Trip and VKT for petrol vehicles in Hong Kong

	Notation	Trips (Default) ^(a)	VKT (Default) ^(a)	Estimated VKT for Local Roads in Hong Kong ^(b)	Trips per Estimated VKT for Local Roads in Hong Kong ^(c)
Model year: 2017					
Petrol Private Cars	PC	718,122	13,172,139	1,659,690	0.433
Taxi	Taxi	72,957	6,910,044	870,666	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,653	91,081	11,476	0.405
Light Goods Vehicles 2.5-3.5 tonne	LGV4	177,430	3,191,666	402,150	0.441
Public Light Buses	PLB	17,392	1,200,452	151,257	0.115
Private Light Buses <=3.5 tonne ^(d)	PV4	6,886	161,643	20,367	0.338
Private Light Buses >3.5 tonne	PV5	5,727	134,566	16,955	0.338
Motor Cycles	MC	269,139	943,997	118,944	2.263

Note:

- (a) Default data extracted directly from EMFAC-HK model V2.5
- (b) Estimated VKT for local roads in Kowloon = VKT (Default) x 12.6%, which is the estimated % of VKT for minor roads in Hong Kong as detailed in the Table below.

Estimation of Vehicle-km for Minor Roads in Hong Kong Territory

Region	Average Daily Vehicle-km ⁽¹⁾		
	Major Road Network ⁽²⁾	Minor Road Network ⁽²⁾	All Road Network
Hong Kong Island	4,743,263	1,085,306	5,828,569
Kowloon	7,448,898	1,019,227	8,468,125
New Territories	17,383,241	2,140,272	19,523,513
Subtotal:	29,575,402	4,244,805	33,820,207
% Share (Total):	87.4%	12.6%	100.0%

Note:

- (1) Data for 2011 as extracted from Section 3.4 on page 10 of "The Annual Traffic Census 2011" published by Transport Department.
- (2) According to Appendices G and H of the Annual Traffic Census 2010, almost all (over 99%) of the trafficable lengths of minor road networks in Kowloon belong to local distributors with possible cold-start trips, whereas the remaining minority (less than 1%) of the minor road networks belong to district distributors with stopping/parking restrictions and hence no cold-start trips. For the major road networks in Hong Kong, however, a small portion (about 28%) of the trafficable lengths belong to local distributors or rural roads with possible cold-start trips, whereas the remaining large portion (about 72%) belong to expressways, trunk roads; primary or district distributors, all of which have stopping/parking restrictions and hence no cold-start trips. Therefore, the % of daily vehicle-km for local distributors and rural roads in Hong Kong can be approximated by the % of daily vehicle-km for minor road networks in Hong Kong, which is on the low side and will in return result in conservative estimates for the no. of trips.
- (3) "The Annual Traffic Census 2011" can be found from the website - http://www.td.gov.hk/en/publications_and_press_releases/publications/free_publications/the_annual_traffic_census_2011/index.html