

Trip and VKT for petrol vehicles in Hong Kong

	Notation	Trips (Default) <sup>(a)</sup>	VKT (Default) <sup>(a)</sup>	Estimated VKT for Local Roads in Hong Kong <sup>(b)</sup>	Trips per Estimated VKT for Local Roads in Hong Kong <sup>(c)</sup>
Model year: 2015					
Petrol Private Cars	PC	693,714	12,786,953	1,611,156	0.431
Taxi	Taxi	72,965	6,910,782	870,759	<b>0.084</b>
Light Goods Vehicles <=2.5 tonne	LGV3	4,607	87,557	11,032	<b>0.418</b>
Light Goods Vehicles 2.5-3.5 tonne	LGV4	175,669	3,159,380	398,082	<b>0.441</b>
Public Light Buses	PLB	17,392	1,200,449	151,257	<b>0.115</b>
Private Light Buses <=3.5 tonne <sup>(d)</sup>	PV4	6,897	161,831	20,391	<b>0.338</b>
Private Light Buses >3.5 tonne	PV5	5,715	134,325	16,925	<b>0.338</b>
Motor Cycles	MC	259,962	882,912	111,247	<b>2.337</b>
Model year: 2020					
Petrol Private Cars	PC	750,791	13,700,723	1,726,291	<b>0.435</b>
Taxi	Taxi	72,965	6,910,782	870,759	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,723	95,974	12,093	0.391
Light Goods Vehicles 2.5-3.5 tonne	LGV4	180,104	3,239,374	408,161	0.441
Public Light Buses	PLB	17,392	1,200,449	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,897	162,112	20,426	0.338
Private Light Buses >3.5 tonne	PV5	5,715	134,306	16,923	0.338
Motor Cycles	MC	281,433	993,408	125,169	2.248
Model year: 2025					
Petrol Private Cars	PC	808,542	14,786,414	1,863,088	0.434
Taxi	Taxi	72,965	6,910,784	870,759	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,842	102,488	12,913	0.375
Light Goods Vehicles 2.5-3.5 tonne	LGV4	184,652	3,322,614	418,649	0.441
Public Light Buses	PLB	17,392	1,200,449	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,897	162,115	20,426	0.338
Private Light Buses >3.5 tonne	PV5	5,715	134,326	16,925	0.338
Motor Cycles	MC	303,183	1,063,172	133,960	2.263
Model year: 2030					
Petrol Private Cars	PC	870,712	15,941,825	2,008,670	0.433
Taxi	Taxi	72,965	6,910,786	870,759	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,964	105,281	13,265	0.374
Light Goods Vehicles 2.5-3.5 tonne	LGV4	189,315	3,405,039	429,035	0.441
Public Light Buses	PLB	17,392	1,200,449	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,897	162,065	20,420	0.338
Private Light Buses >3.5 tonne	PV5	5,715	134,316	16,924	0.338
Motor Cycles	MC	326,614	1,145,689	144,357	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 <sup>(1)</sup>		
	Major Road Network <sup>(2)</sup>	Minor Road Network <sup>(2)</sup>	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):	<b>87.4%</b>	<b>12.6%</b>	<b>100.0%</b>

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](http://www.td.gov.hk/en/publications_and_press_releases/publications/free_publications/the_annual_traffic_census_2011/index.html)