

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
Model year: 2017					
Petrol Private Cars	PC	718,122	13,069,820	1,633,728	0.440
Taxi	Taxi	72,957	6,910,043	863,756	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,653	107,266	13,408	0.347
Light Goods Vehicles 2.5-3.5 tonne	LGV4	177,430	3,382,551	422,819	0.420
Public Light Buses	PLB	17,392	1,200,452	150,057	0.116
Private Light Buses <=3.5 tonne ^(d)	PV4	6,886	161,856	20,232	0.340
Private Light Buses >3.5 tonne	PV5	5,727	134,832	16,854	0.340
Motor Cycles	MC	269,139	908,215	113,527	2.371
Model year: 2022					
Petrol Private Cars	PC	773,496	14,053,597	1,756,700	0.440
Taxi	Taxi	72,957	6,910,044	863,756	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,770	99,123	12,390	0.385
Light Goods Vehicles 2.5-3.5 tonne	LGV4	181,910	3,314,109	414,264	0.439
Public Light Buses	PLB	17,392	1,200,452	150,057	0.116
Private Light Buses <=3.5 tonne	PV4	6,886	161,677	20,210	0.341
Private Light Buses >3.5 tonne	PV5	5,727	134,512	16,814	0.341
Motor Cycles	MC	289,939	975,056	121,882	2.379
Model year: 2027					
Petrol Private Cars	PC	833,196	15,105,776	1,888,222	0.441
Taxi	Taxi	72,957	6,910,044	863,756	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,891	101,923	12,740	0.384
Light Goods Vehicles 2.5-3.5 tonne	LGV4	186,504	3,310,334	413,792	0.451
Public Light Buses	PLB	17,392	1,200,451	150,056	0.116
Private Light Buses <=3.5 tonne	PV4	6,886	161,650	20,206	0.341
Private Light Buses >3.5 tonne	PV5	5,727	134,452	16,807	0.341
Motor Cycles	MC	312,347	1,049,547	131,193	2.381
Model year: 2032					
Petrol Private Cars	PC	897,559	16,294,583	2,036,823	0.441
Taxi	Taxi	72,957	6,910,044	863,756	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	5,014	112,736	14,092	0.356
Light Goods Vehicles 2.5-3.5 tonne	LGV4	191,213	3,646,685	455,836	0.419
Public Light Buses	PLB	17,392	1,200,451	150,056	0.116
Private Light Buses <=3.5 tonne	PV4	6,886	161,675	20,209	0.341
Private Light Buses >3.5 tonne	PV5	5,727	134,549	16,819	0.341
Motor Cycles	MC	336,486	1,132,427	141,553	2.377

Note:

(a) Default data extracted directly from EMFAC-HK model V2.6

(b) Estimated VKT for local roads in Kowloon = VKT (Default) x 12.5%, 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	4,857,300	1,089,269	5,946,569
Kowloon	7,053,183	997,951	8,051,134
New Territories	17,961,140	2,179,379	20,140,519
Subtotal:	29,871,623	4,266,599	34,138,222
% Share (Total):	87.5%	12.5%	100.0%

Note:

(1) Data for 2012 as extracted from Section 3.4 on page 10 of "The Annual Traffic Census 2012" published by Transport Department.

(2) According to Appendices G and H of the Annual Traffic Census 2012, almost all (over 99%) of the trafficable lengths of minor road networks in HK Island 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 2012" can be found from the website - http://www.td.gov.hk/filemanager/en/content_4635/annual%20traffic%20census%202012.pdf