

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: 2023					
Petrol Private Cars	PC	785,079	14,253,736	1,795,971	0.437
Taxi		72,957	6,910,044	870,666	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,794	99,134	12,491	0.384
Light Goods Vehicles 2.5-3.5 tonne	LGV4	182,820	3,290,300	414,578	0.441
Public Light Buses	PLB	17,392	1,200,452	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,886	161,667	20,370	0.338
Private Light Buses >3.5 tonne	PV5	5,727	134,472	16,943	0.338
Motor Cycles	MC	294,288	988,334	124,530	2.363
Model year: 2028					
Petrol Private Cars	PC	845,685	15,333,949	1,932,078	0.438
Taxi		72,957	6,910,044	870,666	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	4,915	102,991	12,977	0.379
Light Goods Vehicles 2.5-3.5 tonne	LGV4	187,436	3,330,873	419,690	0.447
Public Light Buses	PLB	17,392	1,200,451	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,886	161,655	20,368	0.338
Private Light Buses >3.5 tonne	PV5	5,727	134,461	16,942	0.338
Motor Cycles	MC	317,032	1,065,853	134,297	2.361
Model year: 2033					
Petrol Private Cars	PC	911,020	16,541,947	2,084,285	0.437
Taxi		72,957	6,910,044	870,666	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	5,039	111,100	13,999	0.360
Light Goods Vehicles 2.5-3.5 tonne	LGV4	192,169	3,667,487	462,103	0.416
Public Light Buses	PLB	17,392	1,200,451	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,886	161,670	20,370	0.338
Private Light Buses >3.5 tonne	PV5	5,727	134,532	16,951	0.338
Motor Cycles	MC	341,533	1,149,208	144,800	2.359
Model year: 2038					
Petrol Private Cars	PC	981,423	17,814,618	2,244,642	0.437
Taxi		72,957	6,910,044	870,666	0.084
Light Goods Vehicles <=2.5 tonne	LGV3	5,166	110,435	13,915	0.371
Light Goods Vehicles 2.5-3.5 tonne	LGV4	197,022	3,610,460	454,918	0.433
Public Light Buses	PLB	17,392	1,200,451	151,257	0.115
Private Light Buses <=3.5 tonne	PV4	6,886	161,663	20,369	0.338
Private Light Buses >3.5 tonne	PV5	5,727	134,497	16,947	0.338
Motor Cycles	MC	367,928	1,237,603	155,938	2.359

- 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	4,539,676	1,099,152	5,638,828
Kowloon	7,639,370	1,008,604	8,647,974
New Territories	18,567,724	2,335,107	20,902,830
Subtotal:	30,746,770	4,442,863	35,189,632
% Share (Total):	87.4%	12.6%	100.0%

- Note:
- (1) Data for 2014 as extracted from Section 3.4 on page 10 of "The Annual Traffic Census 2014" published by Transport Department.
- (2) According to Appendices G and H of the Annual Traffic Census 2014, all of the trafficable lengths of minor road networks in New Territories belong to local distributors with possible 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 2014" can be found from the website - http://www.td.gov.hk/filemanager/en/content_4726/annual%20traffic%20census%202014.pdf