

Appendix 3.6
Summary Results of Comparing the
Total Emission by Using Peak Hour
Flow Speed and Design Road Speed

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Total Daily NO_x Emission Rates by 16 vehicle classes by using Peak Hour Flow Speed and Design Road Speed.

Vehicle Classes	Total Daily NO _x Emissions (ton/day) by using Peak Hour Flow Speed		Total Daily NO _x Emissions (ton/day) by using Design Road Speed	
	Trunk Roads	Other Roads	Trunk Roads	Other Roads
PC&LGV	0.018514	0.024446	0.017493	0.0227
PC&LGV <2.5t	0.001553	0.002195	0.001612	0.002082
LGV2.5-3.5t	0.001577	0.002226	0.001637	0.002113
PLB	0.000348	0.001141	0.000366	0.001126
LGV>3.5t	0.010264	0.013483	0.010654	0.012849
HGV<15t	0.016441	0.032114	0.01709	0.030381
HGV>15t	0.000927	0.001160	0.000974	0.001047
FBDD	0.013481	0.039496	0.014051	0.038163
MC	0.016053	0.018879	0.017098	0.019742
Taxi	0.021200	0.031636	0.01996	0.029454
PrLB<3.5t	0.000000	0.000000	0	0
PrLB>3.5t	0.000974	0.001836	0.001011	0.001742
NFB<6.4t	0.000000	0.000000	0	0
NFB 6.4-15t	0.031606	0.065634	0.032797	0.061852
NFB>15t	0.000013	0.000006	0.000013	0.000006
FBSD	0.000990	0.003919	0.001017	0.003825
Total Emissions	0.13394	0.23817	0.13578	0.22708

Total Daily RSP Emission Rates by 16 vehicle classes by using Peak Hour Flow Speed and Design Road Speed.

Vehicle Classes	Total Daily RSP Emissions (ton/day) by using Peak Hour Flow Speed		Total Daily RSP Emissions (ton/day) by using Design Road Speed	
	Trunk Roads	Other Roads	Trunk Roads	Other Roads
PC&LGV	0.000674	0.001125	0.000547	0.000832
PC&LGV <2.5t	0.000487	0.000793	0.000389	0.000660
LGV2.5-3.5t	0.000438	0.000712	0.000350	0.000594
PLB	0.000279	0.000986	0.000247	0.000933
LGV>3.5t	0.000456	0.000687	0.000365	0.000579
HGV<15t	0.00053	0.001219	0.000435	0.001015
HGV>15t	0.000022	0.000032	0.000017	0.000025
FBDD	0.000282	0.000927	0.000230	0.000831
MC	0.000637	0.000833	0.000670	0.000779
Taxi	0.001681	0.00308	0.001380	0.002386
PrLB<3.5t	0	0	0	0
PrLB>3.5t	0.000547	0.001223	0.000454	0.001025
NFB<6.4t	0	0	0	0
NFB 6.4-15t	0.000892	0.002183	0.000748	0.001853
NFB>15t	0	0	0	0
FBSD	0.000029	0.000122	0.000022	0.000112
Total Emissions	0.0070	0.0139	0.0059	0.0116

Notes:

1. PC&LGV – Petrol Private Cars & Light Goods Vehicles
2. PC&LGV <2.5t – Diesel Private Cars & Light Goods Vehicles <2.5t
3. LGV2.5-3.5t – Diesel Private Cars & Light Goods Vehicles 2.5-3.5t
4. PLB – Public Light Buses
5. LGV>3.5t – Light Goods Vehicles >3.5t
6. HGV<15t – Medium & Heavy Goods Vehicles with GVW 5.5-15t
7. HGV>15t – Medium & Heavy Goods Vehicles with GVW >=15t
8. FBDD – Double Deck Franchised Buses
9. MC – Motor Cycles
10. Taxi – Taxi (LPG)
11. PrLB<3.5t – Private Light Buses <3.5t
12. PrLB>3.5t – Private Light Buses >3.5t
13. NFB<6.4t – Non-franchised Buses <6.4t
14. NFB6.4-15t – Non-franchised Buses 6.4-15t
15. NFB>15t – Non-franchised Buses >15t
16. FBSD – Single Deck Franchised Buses