



**Proposed Diesel Vehicle Emissions
National Environment Protection Measure
Preparatory Work**

**The Australian Diesel Fleet
Existing Vehicle Characteristics
and the Modelling of Transport
Demand, Vehicle Populations
and Emissions - Appendices**



November 1999

APPENDIX A - TABLES

**TABLE A-1: NUMBER OF DIESEL VEHICLES BY GVM BY STATE OF REGISTRATION
BY YEAR OF MANUFACTURE, 1995 (Number).**

NSW							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	9470	1393	9397	5112	1824	4078	31274
row %	30%	4%	30%	16%	6%	13%	100%
column %	23%	14%	23%	11%	6%	6%	13%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	10371	808	10304	19699	11079	45897	98158
row %	11%	1%	10%	20%	11%	47%	100%
column %	25%	8%	26%	42%	38%	66%	42%
Rigid Truck							
3.5 to 12	11992	1926	11593	12751	9240	7696	55198
greater than 12	5983	3101	5677	4835	3425	2650	25671
Total	17975	5027	17270	17586	12665	10346	80869
row %	22%	6%	21%	22%	16%	13%	100%
column %	43%	51%	43%	38%	44%	15%	34%
Articulated Truck							
3.5 to 12	20	9	15	9	28	16	97
greater than 12	2539	2015	2251	2750	2128	2810	14493
Total	2559	2024	2266	2759	2156	2826	14590
row %	18%	14%	16%	19%	15%	19%	100%
column %	6%	21%	6%	6%	7%	4%	6%
Other Truck							
3.5 to 12	150	30	132	117	100	181	710
greater than 12	21	16	13	7	4	5	66
Total	171	46	145	124	104	186	776
row %	22%	6%	19%	16%	13%	24%	100%
column %	0%	0%	0%	0%	0%	0%	0%
Bus							
3.5 to 12	421	102	414	552	875	3675	6039
greater than 12	366	407	337	563	312	2550	4535
Total	787	509	751	1115	1187	6225	10574
row %	7%	5%	7%	11%	11%	59%	100%
column %	2%	5%	2%	2%	4%	9%	4%
Sub total	41333	9807	40133	46395	29015	69558	236241
row %	17%	4%	17%	20%	12%	29%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

ACT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	29	5	29	22	19	9	113
row %	26%	4%	26%	19%	17%	8%	100%
column %	3%	2%	3%	1%	1%	1%	2%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	457	90	424	937	1247	65	3220
row %	14%	3%	13%	29%	39%	2%	100%
column %	42%	33%	41%	53%	65%	10%	48%
Rigid Truck							
3.5 to 12	319	56	318	402	319	296	1710
greater than 12	132	71	132	169	83	97	684
Total	451	127	450	571	402	393	2394
row %	19%	5%	19%	24%	17%	16%	100%
column %	42%	46%	43%	32%	21%	60%	35%
Articulated Truck							
3.5 to 12	--	2	--	2	1	1	6
greater than 12	48	23	48	58	45	52	274
Total	48	25	48	60	46	53	280
row %	17%	9%	17%	21%	16%	19%	100%
column %	4%	9%	5%	3%	2%	8%	4%
Other Truck							
3.5 to 12	10	2	10	12	6	7	47
greater than 12	7	5	5	2	2	4	25
Total	17	7	15	14	8	11	72
row %	24%	10%	21%	19%	11%	15%	100%
column %	2%	3%	1%	1%	0%	2%	1%
Bus							
3.5 to 12	13	11	13	27	33	26	123
greater than 12	66	11	65	133	178	95	548
Total	79	22	78	160	211	121	671
row %	12%	3%	12%	24%	31%	18%	100%
column %	7%	8%	7%	9%	11%	19%	10%
Sub total	1081	276	1044	1764	1933	652	6750
row %	16%	4%	15%	26%	29%	10%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

VIC							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	6508	1875	6035	6660	10312	38284	69674
row %	9%	3%	9%	10%	15%	55%	100%
column %	23%	16%	23%	22%	31%	54%	35%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	3981	732	3863	3975	12399	24366	49316
row %	8%	1%	8%	8%	25%	49%	100%
column %	14%	6%	15%	13%	38%	34%	25%
Rigid Truck							
3.5 to 12	6935	1795	6508	8171	4959	4082	32450
greater than 12	4462	3139	4107	3861	2241	1816	19626
Total	11397	4934	10615	12032	7200	5898	52076
row %	22%	9%	20%	23%	14%	11%	100%
column %	41%	41%	41%	41%	22%	8%	26%
Articulated Truck							
3.5 to 12	1294	1404	952	1150	725	113	5638
greater than 12	2331	2316	2211	2506	880	922	11166
Total	3625	3720	3163	3656	1605	1035	16804
row %	22%	22%	19%	22%	10%	6%	100%
column %	13%	31%	12%	12%	5%	1%	8%
Other Truck							
3.5 to 12	575	129	452	687	244	164	2251
greater than 12	90	57	65	103	91	83	489
Total	665	186	517	790	335	247	2740
row %	24%	7%	19%	29%	12%	9%	100%
column %	2%	2%	2%	3%	1%	0%	1%
Bus							
3.5 to 12	796	277	745	1014	555	390	3777
greater than 12	796	327	765	1522	512	469	4391
Total	1592	604	1510	2536	1067	859	8168
row %	19%	7%	18%	31%	13%	11%	100%
column %	6%	5%	6%	9%	3%	1%	4%
Sub total	27768	12051	25703	29649	32918	70689	198778
row %	14%	6%	13%	15%	17%	36%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

QLD							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	15573	1245	15516	12797	11089	14026	70246
row %	22%	2%	22%	18%	16%	20%	100%
column %	31%	9%	32%	34%	35%	28%	30%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	17246	3755	17055	12081	11509	26893	88539
row %	19%	4%	19%	14%	13%	30%	100%
column %	35%	28%	35%	32%	36%	53%	38%
Rigid Truck							
3.5 to 12	7279	2333	7021	5858	4258	4171	30920
greater than 12	5542	3184	4973	3679	2397	2308	22083
Total	12821	5517	11994	9537	6655	6479	53003
row %	24%	10%	23%	18%	13%	12%	100%
column %	26%	40%	25%	25%	21%	13%	23%
Articulated Truck							
3.5 to 12	19	5	17	25	1	--	67
greater than 12	2063	1876	1874	1956	1440	2002	11211
Total	2082	1881	1891	1981	1441	2002	11278
row %	18%	17%	17%	18%	13%	18%	100%
column %	4%	14%	4%	5%	5%	4%	5%
Other Truck							
3.5 to 12	326	96	283	192	104	79	1080
greater than 12	154	91	136	72	48	57	558
Total	480	187	419	264	152	136	1638
row %	29%	11%	26%	16%	9%	8%	100%
column %	1%	1%	1%	1%	0%	0%	1%
Bus							
3.5 to 12	555	255	525	648	633	863	3479
greater than 12	800	800	761	696	376	355	3788
Total	1355	1055	1286	1344	1009	1218	7267
row %	19%	15%	18%	18%	14%	17%	100%
column %	3%	8%	3%	4%	3%	2%	3%
Sub total	49557	13640	48161	38004	31855	50754	231971
row %	21%	6%	21%	16%	14%	22%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

SA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	2890	268	2874	2646	1503	1797	11978
row %	24%	2%	24%	22%	13%	15%	100%
column %	19%	6%	20%	20%	16%	19%	18%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	5550	354	5521	5161	4416	5108	26110
row %	21%	1%	21%	20%	17%	20%	100%
column %	37%	8%	39%	40%	48%	54%	40%
Rigid Truck							
3.5 to 12	3131	1515	2412	2199	1503	984	11744
greater than 12	1731	1155	1596	1175	693	533	6883
Total	4862	2670	4008	3374	2196	1517	18627
row %	26%	14%	22%	18%	12%	8%	100%
column %	32%	57%	28%	26%	24%	16%	28%
Articulated Truck							
3.5 to 12	102	31	94	32	8	16	283
greater than 12	918	745	902	1020	683	613	4881
Total	1020	776	996	1052	691	629	5164
row %	20%	15%	19%	20%	13%	12%	100%
column %	7%	17%	7%	8%	7%	7%	8%
Other Truck							
3.5 to 12	210	88	155	151	191	114	909
greater than 12	60	10	45	55	14	32	216
Total	270	98	200	206	205	146	1125
row %	24%	9%	18%	18%	18%	13%	100%
column %	2%	2%	1%	2%	2%	2%	2%
Bus							
3.5 to 12	183	103	151	201	151	150	939
greater than 12	420	424	411	324	88	62	1729
Total	603	527	562	525	239	212	2668
row %	23%	20%	21%	20%	9%	8%	100%
column %	4%	11%	4%	4%	3%	2%	4%
Sub total	15195	4693	14161	12964	9250	9409	65672
row %	23%	7%	22%	20%	14%	14%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

WA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	6289	594	6154	5785	5903	6429	31154
row %	20%	2%	20%	19%	19%	21%	100%
column %	27%	8%	29%	26%	30%	25%	26%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	7180	882	7054	8691	8691	13855	46353
row %	15%	2%	15%	19%	19%	30%	100%
column %	31%	12%	33%	40%	44%	54%	39%
Rigid Truck							
3.5 to 12	3623	1261	3143	3302	1997	1943	15269
greater than 12	3538	3126	2965	1964	1242	1045	13880
Total	7161	4387	6108	5266	3239	2988	29149
row %	25%	15%	21%	18%	11%	10%	100%
column %	31%	59%	29%	24%	17%	12%	25%
Articulated Truck							
3.5 to 12	17	9	3	5	- -	1	35
greater than 12	1411	1254	1291	1036	622	574	6188
Total	1428	1263	1294	1041	622	575	6223
row %	23%	20%	21%	17%	10%	9%	100%
column %	6%	17%	6%	5%	3%	2%	5%
Other Truck							
3.5 to 12	230	78	146	101	38	55	648
greater than 12	91	27	18	9	6	7	158
Total	321	105	164	110	44	62	806
row %	40%	13%	20%	14%	5%	8%	100%
column %	1%	1%	1%	1%	0%	0%	1%
Bus							
3.5 to 12	299	149	187	261	823	1533	3252
greater than 12	299	112	224	785	262	112	1794
Total	598	261	411	1046	1085	1645	5046
row %	12%	5%	8%	21%	22%	33%	100%
column %	3%	3%	2%	5%	6%	6%	4%
Sub total	22977	7492	21185	21939	19584	25554	118731
row %	19%	6%	18%	18%	16%	22%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

TAS							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	1251	161	1230	695	692	873	4902
row %	26%	3%	25%	14%	14%	18%	100%
column %	16%	9%	16%	11%	18%	39%	17%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	4116	56	4088	3696	1848	308	14112
row %	29%	0%	29%	26%	13%	2%	100%
column %	53%	3%	54%	57%	48%	14%	48%
Rigid Truck							
3.5 to 12	1034	411	1007	980	558	361	4351
greater than 12	775	651	702	461	189	134	2912
Total	1809	1062	1709	1441	747	495	7263
row %	25%	15%	24%	20%	10%	7%	100%
column %	23%	59%	23%	22%	20%	22%	25%
Articulated Truck							
3.5 to 12	5	--	5	--	--	5	15
greater than 12	294	325	271	285	195	244	1614
Total	299	325	276	285	195	249	1629
row %	18%	20%	17%	17%	12%	15%	100%
column %	4%	18%	4%	4%	5%	11%	6%
Other Truck							
3.5 to 12	20	8	19	18	22	21	108
greater than 12	30	16	29	25	13	30	143
Total	50	24	48	43	35	51	251
row %	20%	10%	19%	17%	14%	20%	100%
column %	1%	1%	1%	1%	1%	2%	1%
Bus							
3.5 to 12	85	76	82	102	65	63	473
greater than 12	126	92	123	175	229	194	939
Total	211	168	205	277	294	257	1412
row %	15%	12%	15%	20%	21%	18%	100%
column %	3%	9%	3%	4%	8%	12%	5%
Sub total	7736	1796	7556	6437	3811	2233	29569
row %	26%	6%	26%	22%	13%	8%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

NT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	858	43	857	972	603	713	4046
row %	21%	1%	21%	24%	15%	18%	100%
column %	26%	5%	26%	28%	24%	20%	24%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	1283	223	1277	1247	1166	1928	7124
row %	18%	3%	18%	18%	16%	27%	100%
column %	39%	28%	39%	36%	46%	55%	42%
Rigid Truck							
3.5 to 12	494	173	480	480	209	158	1994
greater than 12	269	139	257	213	117	75	1070
Total	763	312	737	693	326	233	3064
row %	25%	10%	24%	23%	11%	8%	100%
column %	23%	39%	23%	20%	13%	7%	18%
Articulated Truck							
3.5 to 12	4	2	3	2	--	--	11
greater than 12	188	156	176	164	107	136	927
Total	192	158	179	166	107	136	938
row %	20%	17%	19%	18%	11%	14%	100%
column %	6%	20%	6%	5%	4%	4%	6%
Other Truck							
3.5 to 12	19	7	13	19	9	12	79
greater than 12	7	9	2	7	9	--	34
Total	26	16	15	26	18	12	113
row %	23%	14%	13%	23%	16%	11%	100%
column %	1%	2%	0%	1%	1%	0%	1%
Bus							
3.5 to 12	74	21	60	161	225	388	929
greater than 12	110	25	110	160	103	95	603
Total	184	46	170	321	328	483	1532
row %	12%	3%	11%	21%	21%	32%	100%
column %	6%	6%	5%	9%	13%	14%	9%
Sub total	3306	798	3235	3425	2548	3505	16817
row %	20%	5%	19%	20%	15%	21%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-1: Number of Diesel Vehicles by GVM by State of Registration by Year of Manufacture, 1995 (Number).

ALL STATES							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	42868	5584	42092	34689	31945	66209	223387
row %	19%	2%	19%	16%	14%	30%	100%
column %	25%	11%	26%	22%	24%	28%	25%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	50184	6900	49586	55487	52355	118420	332932
row %	15%	2%	15%	17%	16%	36%	100%
column %	30%	14%	31%	35%	40%	51%	37%
Rigid Truck							
3.5 to 12	34807	9470	32482	34143	23043	19691	153636
greater than 12	22432	14566	20409	16357	10387	8658	92809
Total	57239	24036	52891	50500	33430	28349	246445
row %	23%	10%	21%	20%	14%	12%	100%
column %	34%	48%	33%	31%	26%	12%	27%
Articulated Truck							
3.5 to 12	1461	1462	1089	1225	763	152	6152
greater than 12	9792	8710	9024	9775	6100	7353	50754
Total	11253	10172	10113	11000	6863	7505	56906
row %	20%	18%	18%	19%	12%	13%	100%
column %	7%	20%	6%	7%	5%	3%	6%
Other Truck							
3.5 to 12	1540	438	1210	1297	714	633	5832
greater than 12	460	231	313	280	187	218	1689
Total	2000	669	1523	1577	901	851	7521
row %	27%	9%	20%	21%	12%	11%	100%
column %	1%	1%	1%	1%	1%	0%	1%
Bus							
3.5 to 12	2426	994	2177	2966	3360	7088	19011
greater than 12	2983	2198	2796	4358	2060	3932	18327
Total	5409	3192	4973	7324	5420	11020	37338
row %	14%	9%	13%	20%	15%	30%	100%
column %	3%	6%	3%	5%	4%	5%	4%
Sub total	168953	50553	161178	160577	130914	232354	904529
row %	19%	6%	18%	18%	14%	26%	100%
column %	100%	100%	100%	100%	100%	100%	100%
- nil or negligible.							
Numbers may not add due to rounding.							
Sources:							
ACG (1997).							
ABS (1998), pers. comm.							

TABLE A-2 : DISTANCE TRAVELLED BY AREA OF OPERATION BY STATE BY VEHICLE TYPE - DIESEL FUELLED VEHICLES, 1995 (Million kilometres)							
NSW							
Vehicle Type				Area Of Operation			
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		154.4	138.0	292.4	386.0	42,248.5	0.9%
row %		40.0%	35.8%	75.8%	100.0%		
column %		7.3%	13.6%	9.4%	6.4%	77.8%	
Motorcycle		--	--	--	--	450.7	--
row %		--	--	--	--		
column %		--	--	--	--	0.8%	
LCV		370.1	360.2	730.3	2,092.9	7,821.8	26.8%
row %		17.7%	17.2%	34.9%	100.0%		
column %		17.6%	35.5%	23.4%	34.6%	14.4%	
Rigid Truck		1,068.4	303.8	1,372.2	2,008.7	2,179.3	92.2%
row %		53.2%	15.1%	68.3%	100.0%		
column %		50.8%	29.9%	44.0%	33.2%	4.0%	
Articulated Truck		305.5	160.6	466.1	1,184.7	1,189.1	99.6%
row %		25.8%	13.6%	39.3%	100.0%		
column %		14.5%	15.8%	15.0%	19.6%	2.2%	
Other Truck		7.9	8.8	16.7	21.6	57.5	37.6%
row %		36.6%	40.7%	77.3%	100.0%		
column %		0.4%	0.9%	0.5%	0.4%	0.1%	
Bus		194.8	44.2	239.0	356.5	389.1	91.6%
row %		54.6%	12.4%	67.0%	100.0%		
column %		9.3%	4.4%	7.7%	5.9%	0.7%	
Sub total		2,101.1	1,015.6	3,116.7	6,050.4	54,336.0	11.1%
row %		34.7%	16.8%	51.5%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

ACT							
Vehicle Type	Area Of Operation						
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		--	--	--	--	2,900.4	--
row %		--	--	--	--		
column %		--	--	--	--	85.2%	
Motorcycle		--	--	--	--	27.0	--
row %		--	--	--	--		
column %		--	--	--	--	0.8%	
LCV		51.0	--	51.0	68.7	346.6	19.8%
row %		74.2%	--	74.2%	100.0%		
column %		38.8%	--	38.8%	35.4%	10.2%	
Rigid Truck		50.6	--	50.6	67.9	73.3	92.6%
row %		74.5%	--	74.5%	100.0%		
column %		38.5%	--	38.5%	35.0%	2.2%	
Articulated Truck		4.6	--	4.6	27.7	27.7	100.0%
row %		16.6%	--	16.6%	100.0%		
column %		3.5%	--	3.5%	14.3%	0.8%	
Other Truck		2.0	--	2.0	2.0	2.0	100.0%
row %		100.0%	--	100.0%	100.0%		
column %		1.5%	--	1.5%	1.0%	0.1%	
Bus		23.1	--	23.1	27.9	27.9	100.0%
row %		82.8%	--	82.8%	100.0%		
column %		17.6%	--	17.6%	14.4%	0.8%	
Sub total		131.3	--	131.3	194.2	3,404.9	5.7%
row %		67.6%	--	67.6%	100.0%		
column %		100.0%	--	100.0%	100.0%	100.0%	

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

VIC							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		1,027.1	165.7	1,192.8	1,795.4	37,939.6	4.7%
row %		57.2%	9.2%	66.4%	100.0%		
column %		36.9%	25.7%	34.8%	31.0%	78.9%	
Motorcycle		--	--	--	--	330.8	--
row %		--	--	--	--		
column %		--	--	--	--	0.7%	
LCV		456.3	114.8	571.1	983.4	6,514.2	15.1%
row %		46.4%	11.7%	58.1%	100.0%		
column %		16.4%	17.8%	16.7%	17.0%		
Rigid Truck		788.1	190.2	978.3	1,314.1	1,524.8	86.2%
row %		60.0%	14.5%	74.4%	100.0%		
column %		28.3%	29.5%	28.5%	22.7%	3.2%	
Articulated Truck		342.9	148.0	490.9	1,425.5	1,426.9	99.9%
row %		24.1%	10.4%	34.4%	100.0%		
column %		12.3%	22.9%	14.3%	24.6%	3.0%	
Other Truck		24.0	3.9	27.9	38.0	62.5	60.8%
row %		63.2%	10.3%	73.4%	100.0%		
column %		0.9%	0.6%	0.8%	0.7%	0.1%	
Bus		144.6	23.1	167.7	229.4	303.6	75.6%
row %		63.0%	10.1%	73.1%	100.0%		
column %		5.2%	3.6%	4.9%	4.0%	0.6%	
Sub total		2,783.0	645.7	3,428.7	5,785.8	48,102.4	12.0%
row %		48.1%	11.2%	59.3%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

QLD							
Vehicle Type	Area Of Operation						
	Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel	
Passenger	270.3	250.7	521.0	1,010.4	28,572.8	3.5%	
row %	26.8%	24.8%	51.6%	100.0%			
column %	18.4%	23.3%	20.5%	18.1%	74.9%		
Motorcycle	--	--	--	--	401.7	--	
row %	--	--	--	--			
column %	--	--	--	--	1.1%		
LCV	505.3	361.8	867.1	1,990.4	6,479.2	30.7%	
row %	25.4%	18.2%	43.6%	100.0%			
column %	34.4%	33.6%	34.1%	35.7%	17.0%		
Rigid Truck	451.4	299.5	750.9	1,285.2	1,347.5	95.4%	
row %	35.1%	23.3%	58.4%	100.0%			
column %	30.7%	27.8%	29.5%	23.0%	3.5%		
Articulated Truck	150.2	78.5	228.7	997.1	997.1	100.0%	
row %	15.1%	7.9%	22.9%	100.0%			
column %	10.2%	7.3%	9.0%	17.9%	2.6%		
Other Truck	14.5	15.9	30.4	42.0	55.5	75.7%	
row %	34.5%	37.9%	72.4%	100.0%			
column %	1.0%	1.5%	1.2%	0.8%	0.1%		
Bus	77.2	69.9	147.1	255.5	291.1	87.8%	
row %	30.2%	27.4%	57.6%	100.0%			
column %	5.3%	6.5%	5.8%	4.6%	0.8%		
Sub total	1,468.9	1,076.3	2,545.2	5,580.6	38,144.9	14.6%	
row %	26.3%	19.3%	45.6%	100.0%			
column %	100.0%	100.0%	100.0%	100.0%	100.0%		

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

SA							
Vehicle Type	Area Of Operation						
	Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel	
Passenger	101.5	--	101.5	279.7	11,917.0	2.3%	
row %	36.3%	--	36.3%	100.0%			
column %	15.9%	--	15.9%	15.8%	78.5%		
Motorcycle	--	--	--	--	144.9	--	
row %	--	--	--	--			
column %	--	--	--	--	1.0%		
LCV	215.8	--	215.8	462.8	2,017.9	22.9%	
row %	46.6%	--	46.6%	100.0%			
column %	33.7%	--	33.7%	26.1%	13.3%		
Rigid Truck	201.7	--	201.7	384.3	443.4	86.7%	
row %	52.5%	--	52.5%	100.0%			
column %	31.5%	--	31.5%	21.6%	2.9%		
Articulated Truck	50.6	--	50.6	514.8	514.8	100.0%	
row %	9.8%	--	9.8%	100.0%			
column %	7.9%	--	7.9%	29.0%	3.4%		
Other Truck	4.9	--	4.9	9.5	20.8	45.7%	
row %	51.6%	--	51.6%	100.0%			
column %	0.8%	--	0.8%	0.5%	0.1%		
Bus	65.7	--	65.7	124.1	131.6	94.3%	
row %	52.9%	--	52.9%	100.0%			
column %	10.3%	--	10.3%	7.0%	0.9%		
Sub total	640.2	--	640.2	1,775.2	15,190.4	11.7%	
row %	36.1%	--	36.1%	100.0%			
column %	100.0%	--	100.0%	100.0%	100.0%		

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

WA							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		324.3	--	324.3	614.0	14,846.3	4.1%
row %		52.8%	--	52.8%	100.0%		
column %		30.7%	--	30.7%	22.1%	75.5%	
Motorcycle		--	--	--	--	126.9	--
row %		--	--	--	--		
column %		--	--	--	--	0.6%	
LCV		231.2	--	231.2	886.4	3,311.5	26.8%
row %		26.1%	--	26.1%	100.0%		
column %		21.9%	--	21.9%	32.0%	16.8%	
Rigid Truck		307.3	--	307.3	611.4	692.0	88.4%
row %		50.3%	--	50.3%	100.0%		
column %		29.1%	--	29.1%	22.0%	3.5%	
Articulated Truck		97.4	--	97.4	478.5	478.5	100.0%
row %		20.4%	--	20.4%	100.0%		
column %		9.2%	--	9.2%	17.2%	2.4%	
Other Truck		4.9	--	4.9	6.6	38.7	17.1%
row %		74.2%	--	74.2%	100.0%		
column %		0.5%	--	0.5%	0.2%	0.2%	
Bus		89.7	--	89.7	177.1	180.6	98.1%
row %		50.6%	--	50.6%	100.0%		
column %		8.5%	--	8.5%	6.4%	0.9%	
Sub total		1,054.8	--	1,054.8	2,774.0	19,674.5	14.1%
row %		38.0%	--	38.0%	100.0%		
column %		100.0%	--	100.0%	100.0%	100.0%	

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

TAS							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		21.5	34.5	56.0	70.5	3,572.9	2.0%
row %		30.5%	48.9%	79.4%	100.0%		
column %		13.7%	17.1%	15.6%	11.4%	74.8%	
Motorcycle		--	--	--	--	29.0	--
row %		--	--	--	--		
column %		--	--	--	--	0.6%	
LCV		48.4	59.8	108.2	232.2	839.1	27.7%
row %		20.8%	25.8%	46.6%	100.0%		
column %		30.8%	29.7%	30.2%	37.5%	17.6%	
Rigid Truck		47.5	48.4	95.9	135.6	153.3	88.5%
row %		35.0%	35.7%	70.7%	100.0%		
column %		30.2%	24.0%	26.7%	21.9%	3.2%	
Articulated Truck		19.9	44.6	64.5	134.7	134.7	100.0%
row %		14.8%	33.1%	47.9%	100.0%		
column %		12.7%	22.1%	18.0%	21.8%	2.8%	
Other Truck		1.0	1.0	2.0	4.0	4.0	100.0%
row %		25.0%	25.0%	50.0%	100.0%		
column %		0.6%	0.5%	0.6%	0.6%	0.1%	
Bus		18.8	13.2	32.0	42.3	42.3	100.0%
row %		44.4%	31.2%	75.7%	100.0%		
column %		12.0%	6.6%	8.9%	6.8%	0.9%	
Sub total		157.1	201.5	358.6	619.3	4,775.3	13.0%
row %		25.4%	32.5%	57.9%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

NT							
Vehicle Type	Area Of Operation						
	Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel	
Passenger	12.4	- -	12.4	72.1	932.5	7.7%	
row %	17.2%	- -	17.2%	100.0%			
column %	13.0%	- -	13.0%	16.5%	59.9%		
Motorcycle	- -	- -	- -	- -	15.0	- -	
row %	- -	- -	- -	- -			
column %	- -	- -	- -	- -	1.0%		
LCV	40.6	- -	40.6	151.3	386.6	39.1%	
row %	26.8%	- -	26.8%	100.0%			
column %	42.4%	- -	42.4%	34.7%	24.8%		
Rigid Truck	24.4	- -	24.4	57.3	66.5	86.2%	
row %	42.6%	- -	42.6%	100.0%			
column %	25.5%	- -	25.5%	13.1%	4.3%		
Articulated Truck	6.7	- -	6.7	98.4	98.4	100.0%	
row %	6.8%	- -	6.8%	100.0%			
column %	7.0%	- -	7.0%	22.6%	6.3%		
Other Truck	1.0	- -	1.0	4.0	4.0	100.0%	
row %	25.0%	- -	25.0%	100.0%			
column %	1.0%	- -	1.0%	0.9%	0.3%		
Bus	10.6	- -	10.6	52.8	52.8	100.0%	
row %	20.1%	- -	20.1%	100.0%			
column %	11.1%	- -	11.1%	12.1%	3.4%		
Sub total	95.7	- -	95.7	435.9	1,555.8	28.0%	
row %	22.0%	- -	22.0%	100.0%			
column %	100.0%	- -	100.0%	100.0%	100.0%		

Table A-2: Distance Travelled by Area of Operation by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

AUSTRALIA							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		1,911.5	588.9	2,500.4	4,228.1	142,930.0	3.0%
row %		45.2%	13.9%	59.1%	100.0%		
column %		22.7%	20.0%	22.0%	18.2%	77.2%	
Motorcycle		--	--	--	--	1,526.0	--
row %		--	--	--	--		
column %		--	--	--	--	0.8%	
LCV		1,918.7	896.6	2,815.3	6,868.1	27,716.9	24.8%
row %		27.9%	13.1%	41.0%	100.0%		
column %		22.8%	30.5%	24.8%	29.6%	15.0%	
Rigid Truck		2,939.4	841.9	3,781.3	5,864.5	6,480.1	90.5%
row %		50.1%	14.4%	64.5%	100.0%		
column %		34.9%	28.6%	33.3%	25.3%	3.5%	
Articulated Truck		977.8	431.7	1,409.5	4,861.4	4,867.2	99.9%
row %		20.1%	8.9%	29.0%	100.0%		
column %		11.6%	14.7%	12.4%	20.9%	2.6%	
Other Truck		60.2	29.6	89.8	127.7	245.0	52.1%
row %		47.1%	23.2%	70.3%	100.0%		
column %		0.7%	1.0%	0.8%	0.6%	0.1%	
Bus		624.5	150.4	774.9	1,265.6	1,419.0	89.2%
row %		49.3%	11.9%	61.2%	100.0%		
column %		7.4%	5.1%	6.8%	5.5%	0.8%	
Sub total		8,432.1	2,939.1	11,371.2	23,215.4	185,184.2	12.5%
row %		36.3%	12.7%	49.0%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	
- nil or negligible.							
Numbers may not add due to rounding.							
Sources:							
ACG (1997).							
ABS (1998), pers. comm.							

TABLE A-3 : DISTANCE TRAVELLED BY STATE BY YEAR OF MANUFACTURE BY STATE BY VEHICLE TYPE - DIESEL FUELLED VEHICLES, 1995 (Million Kilometres)							
NSW							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	6	6	341	34	387
row %	- -	- -	1.6%	1.6%	88.1%	8.8%	100.0%
column %	- -	- -	0.6%	- -	23.0%	2.5%	6.4%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	18	73	378	698	391	534	2092
row %	0.9%	3.5%	18.1%	33.4%	18.7%	25.5%	100.0%
column %	19.8%	17.7%	36.4%	42.1%	26.3%	39.1%	34.6%
Rigid Truck	29	184	442	537	494	322	2008
row %	1.4%	9.2%	22.0%	26.7%	24.6%	16.0%	100.0%
column %	31.9%	44.6%	42.6%	32.4%	33.3%	23.6%	33.2%
Articulated Truck	20	119	150	321	186	389	1185
row %	1.7%	10.0%	12.7%	27.1%	15.7%	32.8%	100.0%
column %	22.0%	28.8%	14.5%	19.3%	12.5%	28.5%	19.6%
Other Truck	3	- -	7	3	4	5	22
row %	13.6%	- -	31.8%	13.6%	18.2%	22.7%	100.0%
column %	3.3%	- -	0.7%	- -	- -	- -	- -
Bus	21	37	55	94	69	81	357
row %	5.9%	10.4%	15.4%	26.3%	19.3%	22.7%	100.0%
column %	23.1%	9.0%	5.3%	5.7%	4.6%	5.9%	5.9%
Sub total	91	413	1038	1659	1485	1365	6051
row %	1.5%	6.8%	17.2%	27.4%	24.5%	22.6%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

ACT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	--	35	11	--	22	68
row %	--	--	51.5%	16.2%	--	32.4%	100.0%
column %	--	--	63.6%	23.9%	--	37.3%	35.1%
Rigid Truck	--	3	14	21	13	18	69
row %	--	4.3%	20.3%	30.4%	18.8%	26.1%	100.0%
column %	--	60.0%	25.5%	45.7%	44.8%	30.5%	35.6%
Articulated Truck	--	2	3	7	6	10	28
row %	--	7.1%	10.7%	25.0%	21.4%	35.7%	100.0%
column %	--	40.0%	5.5%	15.2%	20.7%	16.9%	14.4%
Other Truck	--	--	--	--	--	2	2
row %	--	--	--	--	--	100.0%	100.0%
column %	--	--	--	--	--	3.4%	1.0%
Bus	--	--	3	7	10	7	27
row %	--	--	11.1%	25.9%	37.0%	25.9%	100.0%
column %	--	--	5.5%	15.2%	34.5%	11.9%	13.9%
Sub total	--	5	55	46	29	59	194
row %	--	2.6%	28.4%	23.7%	14.9%	30.4%	100.0%
column %	--	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

VIC							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	768	305	--	722	1795
row %	--	--	42.8%	17.0%	--	40.2%	100.0%
column %	--	--	50.4%	22.7%	--	41.7%	31.0%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	9	33	251	218	216	257	984
row %	0.9%	3.4%	25.5%	22.2%	22.0%	26.1%	100.0%
column %	14.8%	10.2%	16.5%	16.2%	26.9%	14.8%	17.0%
Rigid Truck	17	95	315	420	256	211	1314
row %	1.3%	7.2%	24.0%	32.0%	19.5%	16.1%	100.0%
column %	27.9%	29.4%	20.7%	31.2%	31.8%	12.2%	22.7%
Articulated Truck	26	177	136	325	289	473	1426
row %	1.8%	12.4%	9.5%	22.8%	20.3%	33.2%	100.0%
column %	42.6%	54.8%	8.9%	24.2%	35.9%	27.3%	24.6%
Other Truck	--	--	10	6	10	12	38
row %	--	--	26.3%	15.8%	26.3%	31.6%	100.0%
column %	--	--	0.7%	0.4%	1.2%	0.7%	0.7%
Bus	9	18	43	71	33	56	230
row %	3.9%	7.8%	18.7%	30.9%	14.3%	24.3%	100.0%
column %	14.8%	5.6%	2.8%	5.3%	4.1%	3.2%	4.0%
Sub total	61	323	1523	1345	804	1731	5787
row %	1%	6%	26%	23%	14%	30%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

QLD							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	420	298	73	221	1012
row %	--	--	41.5%	29.4%	7.2%	21.8%	100.0%
column %	--	--	31.9%	21.7%	6.8%	14.6%	18.1%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	39	403	449	514	585	1990
row %	--	2.0%	20.3%	22.6%	25.8%	29.4%	100.0%
column %	--	16.1%	30.6%	32.7%	47.6%	38.6%	35.6%
Rigid Truck	22	72	323	355	243	270	1285
row %	1.7%	5.6%	25.1%	27.6%	18.9%	21.0%	100.0%
column %	40.7%	29.8%	24.5%	25.8%	22.5%	17.8%	23.0%
Articulated Truck	22	102	116	216	184	357	997
row %	2.2%	10.2%	11.6%	21.7%	18.5%	35.8%	100.0%
column %	40.7%	42.1%	8.8%	15.7%	17.1%	23.5%	17.9%
Other Truck	--	9	8	11	9	6	43
row %	--	20.9%	18.6%	25.6%	20.9%	14.0%	100.0%
column %	--	3.7%	0.6%	0.8%	0.8%	0.4%	0.8%
Bus	10	20	47	45	56	78	256
row %	3.9%	7.8%	18.4%	17.6%	21.9%	30.5%	100.0%
column %	18.5%	8.3%	3.6%	3.3%	5.2%	5.1%	4.6%
Sub total	54	242	1317	1374	1079	1517	5583
row %	1.0%	4.3%	23.6%	24.6%	19.3%	27.2%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

SA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	62	9	209	- -	280
row %	- -	- -	22.1%	3.2%	74.6%	- -	100.0%
column %	- -	- -	18.7%	2.1%	43.5%	- -	15.8%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	- -	8	84	166	76	129	463
row %	- -	1.7%	18.1%	35.9%	16.4%	27.9%	100.0%
column %	- -	6.8%	25.3%	38.2%	15.8%	33.2%	26.1%
Rigid Truck	14	32	85	99	74	81	385
row %	3.6%	8.3%	22.1%	25.7%	19.2%	21.0%	100.0%
column %	63.6%	27.4%	25.6%	22.8%	15.4%	20.9%	21.7%
Articulated Truck	4	53	71	120	105	160	513
row %	0.8%	10.3%	13.8%	23.4%	20.5%	31.2%	100.0%
column %	18.2%	45.3%	21.4%	27.6%	21.8%	41.2%	28.9%
Other Truck	- -	- -	2	5	2	- -	9
row %	- -	- -	22.2%	55.6%	22.2%	- -	100.0%
column %	- -	- -	0.6%	1.2%	- -	- -	0.5%
Bus	4	24	28	35	15	18	124
row %	3.2%	19.4%	22.6%	28.2%	12.1%	14.5%	100.0%
column %	18.2%	20.5%	8.4%	8.1%	3.1%	4.6%	7.0%
Sub total	22	117	332	434	481	388	1774
row %	1.2%	6.6%	18.7%	24.5%	27.1%	21.9%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

WA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	170	154	14	277	615
row %	--	--	27.6%	25.0%	2.3%	45.0%	100.0%
column %	--	--	33.0%	25.0%	3.1%	29.8%	22.2%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	8	41	162	143	156	376	886
row %	0.9%	4.6%	18.3%	16.1%	17.6%	42.4%	100.0%
column %	15.1%	19.6%	31.5%	23.3%	34.4%	40.4%	31.9%
Rigid Truck	21	71	183	135	119	81	610
row %	3.4%	11.6%	30.0%	22.1%	19.5%	13.3%	100.0%
column %	39.6%	34.0%	35.5%	22.0%	26.3%	8.7%	22.0%
Articulated Truck	24	78	--	135	111	131	479
row %	5.0%	16.3%	--	28.2%	23.2%	27.3%	100.0%
column %	45.3%	37.3%	--	22.0%	24.5%	14.1%	17.3%
Other Truck	--	3	--	--	4	--	7
row %	--	42.9%	--	--	57.1%	--	100.0%
column %	--	1.4%	--	--	0.9%	--	--
Bus	--	16	--	48	49	65	178
row %	--	9.0%	--	27.0%	27.5%	36.5%	100.0%
column %	--	7.7%	--	7.8%	10.8%	7.0%	6.4%
Sub total	53	209	515	615	453	930	2775
row %	1.9%	7.5%	18.6%	22.2%	16.3%	33.5%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

TAS							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	32	- -	12	26	70
row %	- -	- -	45.7%	- -	17.1%	37.1%	100.0%
column %	- -	- -	21.5%	- -	9.3%	18.1%	11.4%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	- -	- -	56	62	54	60	232
row %	- -	- -	24.1%	26.7%	23.3%	25.9%	100.0%
column %	- -	- -	37.6%	39.7%	41.9%	41.7%	37.7%
Rigid Truck	3	16	35	37	26	18	135
row %	2.2%	11.9%	25.9%	27.4%	19.3%	13.3%	100.0%
column %	42.9%	51.6%	23.5%	23.7%	20.2%	12.5%	21.9%
Articulated Truck	- -	11	20	44	25	33	133
row %	- -	8.3%	15.0%	33.1%	18.8%	24.8%	100.0%
column %	- -	35.5%	13.4%	28.2%	19.4%	22.9%	21.6%
Other Truck	4	- -	- -	- -	- -	- -	4
row %	100.0%	- -	- -	- -	- -	- -	100.0%
column %	57.1%	- -	- -	- -	- -	- -	0.6%
Bus	- -	4	6	13	12	7	42
row %	- -	9.5%	14.3%	31.0%	28.6%	16.7%	100.0%
column %	- -	12.9%	4.0%	8.3%	9.3%	4.9%	6.8%
Sub total	7	31	149	156	129	144	616
row %	1.1%	5.0%	24.2%	25.3%	20.9%	23.4%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

NT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	23	6	17	27	73
row %	- -	- -	31.5%	8.2%	23.3%	37.0%	100.0%
column %	- -	- -	24.0%	8.6%	20.0%	16.7%	16.7%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	- -	7	35	18	26	66	152
row %	- -	4.6%	23.0%	11.8%	17.1%	43.4%	100.0%
column %	- -	36.8%	36.5%	25.7%	30.6%	40.7%	34.8%
Rigid Truck	- -	4	13	18	12	10	57
row %	- -	7.0%	22.8%	31.6%	21.1%	17.5%	100.0%
column %	- -	21.1%	13.5%	25.7%	14.1%	6.2%	13.0%
Articulated Truck	5	8	22	21	19	23	98
row %	5.1%	8.2%	22.4%	21.4%	19.4%	23.5%	100.0%
column %	100.0%	42.1%	22.9%	30.0%	22.4%	14.2%	22.4%
Other Truck	- -	- -	- -	- -	- -	4	4
row %	- -	- -	- -	- -	- -	100.0%	100.0%
column %	- -	- -	- -	- -	- -	2.5%	0.9%
Bus	- -	- -	3	7	11	32	53
row %	- -	- -	5.7%	13.2%	20.8%	60.4%	100.0%
column %	- -	- -	3.1%	10.0%	12.9%	19.8%	12.1%
Sub total	5	19	96	70	85	162	437
row %	1.1%	4.3%	22.0%	16.0%	19.5%	37.1%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table A-3: Distance Travelled by State by Year of Manufacture by State by Vehicle Type – Diesel Fuelled Vehicles, 1995 (Million Kilometres).

ALL STATES							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	1481	778	666	1307	4232
row %	- -	- -	35.0%	18.4%	15.7%	30.9%	100.0%
column %	- -	- -	29.5%	13.7%	14.7%	20.8%	18.2%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	35	201	1404	1765	1433	2029	6867
row %	0.5%	2.9%	20.4%	25.7%	20.9%	29.5%	100.0%
column %	11.9%	14.8%	27.9%	31.0%	31.5%	32.2%	29.6%
Rigid Truck	106	477	1410	1622	1237	1011	5863
row %	1.8%	8.1%	24.0%	27.7%	21.1%	17.2%	100.0%
column %	36.2%	35.1%	28.1%	28.5%	27.2%	16.1%	25.3%
Articulated Truck	101	550	518	1189	925	1576	4859
row %	2.1%	11.3%	10.7%	24.5%	19.0%	32.4%	100.0%
column %	34.5%	40.5%	10.3%	20.9%	20.4%	25.0%	20.9%
Other Truck	7	12	27	25	29	29	129
row %	5.4%	9.3%	20.9%	19.4%	22.5%	22.5%	100.0%
column %	2.4%	0.9%	0.5%	- -	0.6%	- -	0.6%
Bus	44	119	185	320	255	344	1267
row %	3.5%	9.4%	14.6%	25.3%	20.1%	27.2%	100.0%
column %	15.0%	8.8%	3.7%	5.6%	5.6%	5.5%	5.5%
Sub total	293	1359	5025	5699	4545	6296	23217
row %	1.3%	5.9%	21.6%	24.5%	19.6%	27.1%	100.0%
column %	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
- nil or negligible.							
Numbers may not add due to rounding.							
Sources:							
ACG (1997).							
ABS (1998), pers. comm.							

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TABLE A-4: DISTANCE TRAVELLED BY STATE/TERRITORY OF REGISTRATION BY AREA OF OPERATION BY YEAR OF MANUFACTURE BY GOODS VEHICLES, 1995 (Million Kilometres).															
NSW															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	3	13	72	22	24	22	22	27	31	27	28	33	39	8	371
row %	1%	4%	19%	6%	6%	6%	6%	7%	8%	7%	8%	9%	11%	2%	100%
column %	17%	18%	19%	10%	17%	26%	8%	20%	27%	19%	18%	24%	18%	28%	18%
Rigid Trucks	10	75	259	72	52	64	83	157	82	52	52	41	63	5	1067
row %	1%	7%	24%	7%	5%	6%	8%	15%	8%	5%	5%	4%	6%	0%	100%
column %	34%	41%	59%	38%	44%	65%	63%	67%	51%	54%	46%	43%	60%	63%	53%
Articulated Trucks	8	49	48	17	15	18	18	12	43	8	6	28	32	3	305
row %	3%	16%	16%	6%	5%	6%	6%	4%	14%	3%	2%	9%	10%	1%	100%
column %	40%	41%	32%	18%	21%	32%	18%	25%	41%	26%	7%	24%	19%	14%	26%
Total	21	137	379	111	91	104	123	196	156	87	86	102	134	16	1743
row %	1%	8%	22%	6%	5%	6%	7%	11%	9%	5%	5%	6%	8%	1%	100%
column %	31%	36%	39%	22%	27%	43%	25%	47%	41%	32%	25%	29%	28%	27%	33%
Total Urban															
Light Commercial Vehicles	4	17	127	118	57	28	55	47	39	54	59	38	78	11	732
row %	1%	2%	17%	16%	8%	4%	8%	6%	5%	7%	8%	5%	11%	2%	100%
column %	22%	23%	34%	55%	40%	33%	21%	35%	34%	38%	39%	28%	36%	38%	35%
Rigid Trucks	11	96	321	115	65	83	96	185	108	72	69	65	82	5	1373
row %	1%	7%	23%	8%	5%	6%	7%	13%	8%	5%	5%	5%	6%	0%	100%
column %	38%	52%	73%	61%	55%	85%	73%	79%	67%	74%	61%	68%	78%	63%	68%
Articulated Trucks	10	52	74	29	36	24	33	16	62	15	20	41	49	8	469
row %	2%	11%	16%	6%	8%	5%	7%	3%	13%	3%	4%	9%	10%	2%	100%
column %	50%	44%	49%	31%	50%	42%	33%	33%	58%	48%	23%	35%	30%	36%	40%
Total	25	165	522	262	158	135	184	248	209	141	148	144	209	24	2574
row %	1%	6%	20%	10%	6%	5%	7%	10%	8%	5%	6%	6%	8%	1%	100%
column %	37%	44%	54%	53%	47%	56%	38%	59%	55%	52%	42%	41%	43%	41%	49%
Total State															
Light Commercial Vehicles	18	73	378	213	142	85	259	135	114	141	152	137	217	29	2093
row %	1%	3%	18%	10%	7%	4%	12%	6%	5%	7%	7%	7%	10%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	29	184	442	188	119	98	131	235	162	97	113	96	105	8	2007
row %	1%	9%	22%	9%	6%	5%	7%	12%	8%	5%	6%	5%	5%	0%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	20	119	150	93	72	57	99	48	106	31	86	116	165	22	1184
row %	2%	10%	13%	8%	6%	5%	8%	4%	9%	3%	7%	10%	14%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	67	376	970	494	333	240	489	418	382	269	351	349	487	59	5284
row %	1%	7%	18%	9%	6%	5%	9%	8%	7%	5%	7%	7%	9%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

ACT															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	- -	- -	26	3	2	1	3	- -	- -	- -	6	5	5	1	52
row %	- -	- -	50%	6%	4%	2%	6%	- -	- -	- -	12%	10%	10%	2%	100%
column %	- -	- -	74%	75%	100%	50%	100%	- -	- -	- -	86%	83%	71%	50%	76%
Rigid Trucks	- -	3	11	5	4	5	2	3	4	2	6	4	3	- -	52
row %	- -	6%	21%	10%	8%	10%	4%	6%	8%	4%	12%	8%	6%	- -	100%
column %	- -	100%	79%	83%	100%	63%	67%	60%	67%	100%	86%	57%	100%	- -	76%
Articulated Trucks	- -	- -	1	- -	- -	- -	1	1	- -	- -	- -	1	1	- -	5
row %	- -	- -	20%	- -	- -	- -	20%	20%	- -	- -	- -	20%	20%	- -	100%
column %	- -	- -	33%	- -	- -	- -	33%	33%	- -	- -	- -	25%	33%	- -	19%
Total	- -	3	38	8	6	6	6	4	4	2	12	10	9	1	109
row %	- -	3%	35%	7%	6%	6%	6%	4%	4%	2%	11%	9%	8%	1%	100%
column %	- -	60%	73%	73%	86%	50%	67%	50%	50%	67%	75%	59%	69%	50%	67%
Total Urban															
Light Commercial Vehicles	- -	- -	26	3	2	1	3	- -	- -	- -	6	5	5	1	52
row %	- -	- -	50%	6%	4%	2%	6%	- -	- -	- -	12%	10%	10%	2%	100%
column %	- -	- -	74%	75%	100%	50%	100%	- -	- -	- -	86%	83%	71%	50%	76%
Rigid Trucks	- -	3	11	5	4	5	2	3	4	2	6	4	3	- -	52
row %	- -	6%	21%	10%	8%	10%	4%	6%	8%	4%	12%	8%	6%	- -	100%
column %	- -	100%	79%	83%	100%	63%	67%	60%	67%	100%	86%	57%	100%	- -	76%
Articulated Trucks	- -	- -	1	- -	- -	- -	1	1	- -	- -	- -	1	1	- -	5
row %	- -	- -	20%	- -	- -	- -	20%	20%	- -	- -	- -	20%	20%	- -	100%
column %	- -	- -	33%	- -	- -	- -	33%	33%	- -	- -	- -	25%	33%	- -	19%
Total	- -	3	38	8	6	6	6	4	4	2	12	10	9	1	109
row %	- -	3%	35%	7%	6%	6%	6%	4%	4%	2%	11%	9%	8%	1%	100%
column %	- -	60%	73%	73%	86%	50%	67%	50%	50%	67%	75%	59%	69%	50%	67%
Total State															
Light Commercial Vehicles	- -	- -	35	4	2	2	3	- -	- -	- -	7	6	7	2	68
row %	- -	- -	51%	6%	3%	3%	4%	- -	- -	- -	10%	9%	10%	3%	100%
column %	- -	- -	100%	100%	100%	100%	100%	- -	- -	- -	100%	100%	100%	100%	100%
Rigid Trucks	- -	3	14	6	4	8	3	5	6	2	7	7	3	- -	68
row %	- -	4%	21%	9%	6%	12%	4%	7%	9%	3%	10%	10%	4%	- -	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	- -	100%
Articulated Trucks	- -	2	3	1	1	2	3	3	2	1	2	4	3	- -	27
row %	- -	7%	11%	4%	4%	7%	11%	11%	7%	4%	7%	15%	11%	- -	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	- -	100%
Total	- -	5	52	11	7	12	9	8	8	3	16	17	13	2	163
row %	- -	3%	32%	7%	4%	7%	6%	5%	5%	2%	10%	10%	8%	1%	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

VIC															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	5	15	103	33	23	21	26	42	40	31	29	30	50	8	456
row %	1%	3%	23%	7%	5%	5%	6%	9%	9%	7%	6%	7%	11%	2%	100%
column %	56%	45%	41%	50%	51%	46%	43%	51%	59%	48%	53%	41%	43%	62%	46%
Rigid Trucks	7	61	197	85	53	53	84	63	77	10	30	34	25	9	788
row %	1%	8%	25%	11%	7%	7%	11%	8%	10%	1%	4%	4%	3%	1%	100%
column %	41%	64%	63%	60%	55%	61%	88%	59%	63%	36%	48%	49%	47%	36%	60%
Articulated Trucks	7	78	29	27	25	28	11	46	14	3	21	18	28	6	341
row %	2%	23%	9%	8%	7%	8%	3%	13%	4%	1%	6%	5%	8%	2%	100%
column %	27%	44%	21%	28%	34%	37%	14%	28%	17%	7%	30%	13%	13%	12%	24%
Total	19	154	329	145	101	102	121	151	131	44	80	82	103	23	1585
row %	1%	10%	21%	9%	6%	6%	8%	10%	8%	3%	5%	5%	6%	1%	100%
column %	37%	50%	47%	48%	47%	49%	51%	43%	48%	32%	42%	29%	27%	26%	43%
Total Urban															
Light Commercial Vehicles	6	18	149	36	25	24	38	52	43	33	36	39	63	8	570
row %	1%	3%	26%	6%	4%	4%	7%	9%	8%	6%	6%	7%	11%	1%	100%
column %	67%	55%	59%	55%	56%	52%	62%	63%	63%	51%	65%	53%	55%	62%	58%
Rigid Trucks	8	70	244	119	66	64	88	79	88	17	45	38	41	10	977
row %	1%	7%	25%	12%	7%	7%	9%	8%	9%	2%	5%	4%	4%	1%	100%
column %	47%	74%	77%	84%	69%	74%	92%	75%	72%	61%	71%	54%	77%	40%	74%
Articulated Trucks	14	90	44	47	39	32	18	61	19	7	29	24	52	15	491
row %	3%	18%	9%	10%	8%	7%	4%	12%	4%	1%	6%	5%	11%	3%	100%
column %	54%	51%	32%	48%	53%	42%	23%	37%	23%	16%	41%	18%	24%	30%	34%
Total	28	178	437	202	130	120	144	192	150	57	110	101	156	33	2038
row %	1%	9%	21%	10%	6%	6%	7%	9%	7%	3%	5%	5%	8%	2%	100%
column %	54%	58%	62%	66%	61%	57%	61%	55%	55%	42%	58%	36%	41%	38%	55%
Total State															
Light Commercial Vehicles	9	33	251	66	45	46	61	83	68	65	55	73	115	13	983
row %	1%	3%	26%	7%	5%	5%	6%	8%	7%	7%	6%	7%	12%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	17	95	315	141	96	87	96	106	123	28	63	70	53	25	1315
row %	1%	7%	24%	11%	7%	7%	7%	8%	9%	2%	5%	5%	4%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	26	177	136	97	73	76	79	163	83	43	71	137	215	50	1426
row %	2%	12%	10%	7%	5%	5%	6%	11%	6%	3%	5%	10%	15%	4%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	52	305	702	304	214	209	236	352	274	136	189	280	383	88	3724
row %	1%	8%	19%	8%	6%	6%	6%	9%	7%	4%	5%	8%	10%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

QLD															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	- -	8	109	19	11	38	21	50	53	54	56	41	42	3	505
row %	- -	2%	22%	4%	2%	8%	4%	10%	10%	11%	11%	8%	8%	1%	100%
column %	- -	21%	27%	14%	19%	25%	21%	29%	30%	34%	31%	25%	19%	18%	25%
Rigid Trucks	4	24	117	60	20	13	39	35	35	17	37	19	32	- -	452
row %	1%	5%	26%	13%	4%	3%	9%	8%	8%	4%	8%	4%	7%	- -	100%
column %	18%	33%	36%	58%	24%	16%	45%	33%	40%	34%	35%	27%	36%	- -	35%
Articulated Trucks	3	14	28	20	6	2	8	12	14	9	6	11	10	7	150
row %	2%	9%	19%	13%	4%	1%	5%	8%	9%	6%	4%	7%	7%	5%	100%
column %	14%	14%	24%	33%	14%	7%	10%	18%	21%	18%	7%	10%	8%	21%	15%
Total	7	46	254	99	37	53	68	97	102	80	99	71	84	10	1107
row %	1%	4%	23%	9%	3%	5%	6%	9%	9%	7%	9%	6%	8%	1%	100%
column %	16%	22%	30%	33%	20%	20%	25%	28%	30%	31%	27%	20%	19%	18%	26%
Total Urban															
Light Commercial Vehicles	- -	19	175	44	31	54	48	87	83	81	84	72	85	3	866
row %	- -	2%	20%	5%	4%	6%	6%	10%	10%	9%	10%	8%	10%	0%	100%
column %	- -	49%	43%	33%	53%	35%	48%	50%	46%	51%	47%	44%	38%	18%	44%
Rigid Trucks	6	40	170	82	48	48	49	73	43	28	72	36	50	4	749
row %	1%	5%	23%	11%	6%	6%	7%	10%	6%	4%	10%	5%	7%	1%	100%
column %	27%	56%	53%	79%	59%	58%	57%	70%	49%	56%	69%	51%	57%	67%	58%
Articulated Trucks	5	23	38	23	11	3	12	23	16	16	9	18	22	9	228
row %	2%	10%	17%	10%	5%	1%	5%	10%	7%	7%	4%	8%	10%	4%	100%
column %	23%	23%	33%	38%	26%	10%	14%	34%	24%	32%	11%	16%	17%	26%	23%
Total	11	82	383	149	90	105	109	183	142	125	165	126	157	16	1843
row %	1%	4%	21%	8%	5%	6%	6%	10%	8%	7%	9%	7%	9%	1%	100%
column %	25%	38%	45%	50%	49%	39%	40%	53%	42%	48%	45%	36%	36%	28%	43%
Total State															
Light Commercial Vehicles	- -	39	403	134	59	155	100	175	179	159	178	164	226	17	1988
row %	- -	2%	20%	7%	3%	8%	5%	9%	9%	8%	9%	8%	11%	1%	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	22	72	323	104	82	83	86	105	88	50	105	70	88	6	1284
row %	2%	6%	25%	8%	6%	6%	7%	8%	7%	4%	8%	5%	7%	0%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	22	102	116	61	42	29	84	67	68	50	82	115	126	34	998
row %	2%	10%	12%	6%	4%	3%	8%	7%	7%	5%	8%	12%	13%	3%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	44	213	842	299	183	267	270	347	335	259	365	349	440	57	4270
row %	1%	5%	20%	7%	4%	6%	6%	8%	8%	6%	9%	8%	10%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

S A															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	- -	4	46	50	6	11	14	11	9	10	21	15	17	2	216
row %	- -	2%	21%	23%	3%	5%	6%	5%	4%	5%	10%	7%	8%	1%	100%
column %	- -	50%	55%	67%	30%	46%	30%	39%	43%	38%	60%	35%	63%	8%	47%
Rigid Trucks	4	17	47	16	21	5	13	19	14	9	18	10	7	1	201
row %	2%	8%	23%	8%	10%	2%	6%	9%	7%	4%	9%	5%	3%	0%	100%
column %	29%	53%	55%	52%	58%	42%	65%	59%	61%	47%	58%	32%	41%	50%	52%
Articulated Trucks	3	9	9	3	2	2	4	4	4	3	1	- -	6	1	51
row %	6%	18%	18%	6%	4%	4%	8%	8%	8%	6%	2%	- -	12%	2%	100%
column %	75%	17%	13%	10%	10%	7%	9%	10%	12%	10%	4%	- -	7%	9%	10%
Total	7	30	102	69	29	18	31	34	27	22	40	25	30	4	468
row %	1%	6%	22%	15%	6%	4%	7%	7%	6%	5%	9%	5%	6%	1%	100%
column %	39%	32%	43%	50%	38%	29%	28%	34%	35%	29%	43%	24%	22%	11%	34%
Total Urban															
Light Commercial Vehicles	- -	4	46	50	6	11	14	11	9	10	21	15	17	2	216
row %	- -	2%	21%	23%	3%	5%	6%	5%	4%	5%	10%	7%	8%	1%	100%
column %	- -	50%	55%	67%	30%	46%	30%	39%	43%	38%	60%	35%	63%	8%	47%
Rigid Trucks	4	17	47	16	21	5	13	19	14	9	18	10	7	1	201
row %	2%	8%	23%	8%	10%	2%	6%	9%	7%	4%	9%	5%	3%	0%	100%
column %	29%	53%	55%	52%	58%	42%	65%	59%	61%	47%	58%	32%	41%	50%	52%
Articulated Trucks	3	9	9	3	2	2	4	4	4	3	1	- -	6	1	51
row %	6%	18%	18%	6%	4%	4%	8%	8%	8%	6%	2%	- -	12%	2%	100%
column %	75%	17%	13%	10%	10%	7%	9%	10%	12%	10%	4%	- -	7%	9%	10%
Total	7	30	102	69	29	18	31	34	27	22	40	25	30	4	468
row %	1%	6%	22%	15%	6%	4%	7%	7%	6%	5%	9%	5%	6%	1%	100%
column %	39%	32%	43%	50%	38%	29%	28%	34%	35%	29%	43%	24%	22%	11%	34%
Total State															
Light Commercial Vehicles	- -	8	84	75	20	24	47	28	21	26	35	43	27	24	462
row %	- -	2%	18%	16%	4%	5%	10%	6%	5%	6%	8%	9%	6%	5%	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	14	32	85	31	36	12	20	32	23	19	31	31	17	2	385
row %	4%	8%	22%	8%	9%	3%	5%	8%	6%	5%	8%	8%	4%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	4	53	71	31	21	27	43	40	34	31	26	32	92	11	516
row %	1%	10%	14%	6%	4%	5%	8%	8%	7%	6%	5%	6%	18%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	18	93	240	137	77	63	110	100	78	76	92	106	136	37	1363
row %	1%	7%	18%	10%	6%	5%	8%	7%	6%	6%	7%	8%	10%	3%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

W A															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	2	11	54	8	6	12	9	19	8	9	20	33	29	11	231
row %	1%	5%	23%	3%	3%	5%	4%	8%	3%	4%	9%	14%	13%	5%	100%
column %	25%	27%	33%	16%	21%	36%	26%	24%	24%	20%	19%	30%	24%	29%	26%
Rigid Trucks	6	32	95	23	17	7	25	26	22	14	16	11	12	2	308
row %	2%	10%	31%	7%	6%	2%	8%	8%	7%	5%	5%	4%	4%	1%	100%
column %	29%	45%	52%	59%	47%	39%	58%	46%	56%	58%	55%	48%	48%	50%	50%
Articulated Trucks	3	22	- -	8	9	8	6	11	9	6	1	5	8	1	97
row %	3%	23%	- -	8%	9%	8%	6%	11%	9%	6%	1%	5%	8%	1%	100%
column %	13%	28%	- -	22%	24%	30%	18%	25%	24%	21%	6%	11%	13%	20%	20%
Total	11	65	149	39	32	27	40	56	39	29	37	49	49	14	636
row %	2%	10%	23%	6%	5%	4%	6%	9%	6%	5%	6%	8%	8%	2%	100%
column %	21%	34%	43%	31%	31%	35%	36%	31%	35%	30%	24%	27%	24%	30%	32%
Total Urban															
Light Commercial Vehicles	2	11	54	8	6	12	9	19	8	9	20	33	29	11	231
row %	1%	5%	23%	3%	3%	5%	4%	8%	3%	4%	9%	14%	13%	5%	100%
column %	25%	27%	33%	16%	21%	36%	26%	24%	24%	20%	19%	30%	24%	29%	26%
Rigid Trucks	6	32	95	23	17	7	25	26	22	14	16	11	12	2	308
row %	2%	10%	31%	7%	6%	2%	8%	8%	7%	5%	5%	4%	4%	1%	100%
column %	29%	45%	52%	59%	47%	39%	58%	46%	56%	58%	55%	48%	48%	50%	50%
Articulated Trucks	3	22	- -	8	9	8	6	11	9	6	1	5	8	1	97
row %	3%	23%	- -	8%	9%	8%	6%	11%	9%	6%	1%	5%	8%	1%	100%
column %	13%	28%	- -	22%	24%	30%	18%	25%	24%	21%	6%	11%	13%	20%	20%
Total	11	65	149	39	32	27	40	56	39	29	37	49	49	14	636
row %	2%	10%	23%	6%	5%	4%	6%	9%	6%	5%	6%	8%	8%	2%	100%
column %	21%	34%	43%	31%	31%	35%	36%	31%	35%	30%	24%	27%	24%	30%	32%
Total State															
Light Commercial Vehicles	8	41	162	49	28	33	34	78	34	44	108	111	119	38	887
row %	1%	5%	18%	6%	3%	4%	4%	9%	4%	5%	12%	13%	13%	4%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	21	71	183	39	36	18	43	56	39	24	29	23	25	4	611
row %	3%	12%	30%	6%	6%	3%	7%	9%	6%	4%	5%	4%	4%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	24	78	- -	36	38	27	34	44	38	29	16	47	62	5	478
row %	5%	16%	- -	8%	8%	6%	7%	9%	8%	6%	3%	10%	13%	1%	100%
column %	100%	100%	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	53	190	345	124	102	78	111	178	111	97	153	181	206	47	1976
row %	3%	10%	17%	6%	5%	4%	6%	9%	6%	5%	8%	9%	10%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

TAS															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	- -	- -	9	7	3	3	3	7	1	3	4	2	5	- -	47
row %	- -	- -	19%	15%	6%	6%	6%	15%	2%	6%	9%	4%	11%	- -	100%
column %	- -	- -	16%	26%	23%	30%	25%	32%	6%	20%	17%	12%	33%	- -	20%
Rigid Trucks	1	7	12	4	3	4	3	4	3	3	1	1	2	- -	48
row %	2%	15%	25%	8%	6%	8%	6%	8%	6%	6%	2%	2%	4%	- -	100%
column %	33%	44%	34%	40%	33%	44%	33%	33%	38%	50%	14%	33%	25%	- -	36%
Articulated Trucks	- -	2	5	1	1	1	1	2	1	2	1	2	1	- -	20
row %	- -	10%	25%	5%	5%	5%	5%	10%	5%	10%	5%	10%	5%	- -	100%
column %	- -	18%	25%	6%	11%	13%	10%	17%	17%	29%	8%	20%	13%	- -	15%
Total	1	9	26	12	7	8	7	13	5	8	6	5	8	- -	115
row %	1%	8%	23%	10%	6%	7%	6%	11%	4%	7%	5%	4%	7%	- -	100%
column %	33%	33%	23%	22%	23%	30%	23%	28%	16%	29%	14%	17%	26%	- -	23%
Total Urban															
Light Commercial Vehicles	- -	- -	24	15	6	5	6	11	6	9	9	8	6	2	107
row %	- -	- -	22%	14%	6%	5%	6%	10%	6%	8%	8%	7%	6%	2%	100%
column %	- -	- -	43%	56%	46%	50%	50%	50%	35%	60%	39%	47%	40%	33%	46%
Rigid Trucks	2	12	26	7	6	7	7	9	6	4	4	2	4	- -	96
row %	2%	13%	27%	7%	6%	7%	7%	9%	6%	4%	4%	2%	4%	- -	100%
column %	67%	75%	74%	70%	67%	78%	78%	75%	75%	67%	57%	67%	50%	- -	71%
Articulated Trucks	- -	4	11	7	4	4	7	7	3	3	3	5	3	2	63
row %	- -	6%	17%	11%	6%	6%	11%	11%	5%	5%	5%	8%	5%	3%	100%
column %	- -	36%	55%	41%	44%	50%	70%	58%	50%	43%	25%	50%	38%	67%	47%
Total	2	16	61	29	16	16	20	27	15	16	16	15	13	4	266
row %	1%	6%	23%	11%	6%	6%	8%	10%	6%	6%	6%	6%	5%	2%	100%
column %	67%	59%	55%	54%	52%	59%	65%	59%	48%	57%	38%	50%	42%	44%	53%
Total State															
Light Commercial Vehicles	- -	- -	56	27	13	10	12	22	17	15	23	17	15	6	233
row %	- -	- -	24%	12%	6%	4%	5%	9%	7%	6%	10%	7%	6%	3%	100%
column %	- -	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	3	16	35	10	9	9	9	12	8	6	7	3	8	- -	135
row %	2%	12%	26%	7%	7%	7%	7%	9%	6%	4%	5%	2%	6%	- -	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	- -	100%
Articulated Trucks	- -	11	20	17	9	8	10	12	6	7	12	10	8	3	133
row %	- -	8%	15%	13%	7%	6%	8%	9%	5%	5%	9%	8%	6%	2%	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	3	27	111	54	31	27	31	46	31	28	42	30	31	9	501
row %	1%	5%	22%	11%	6%	5%	6%	9%	6%	6%	8%	6%	6%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

NT															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	- -	2	13	2	1	2	1	3	3	2	4	4	3	1	41
row %	- -	5%	32%	5%	2%	5%	2%	7%	7%	5%	10%	10%	7%	2%	100%
column %	- -	29%	37%	33%	25%	50%	33%	33%	33%	25%	27%	18%	12%	25%	27%
Rigid Trucks	- -	1	6	4	1	- -	2	2	1	1	1	1	1	- -	21
row %	- -	5%	29%	19%	5%	- -	10%	10%	5%	5%	5%	5%	5%	- -	100%
column %	- -	25%	46%	44%	33%	- -	50%	50%	25%	25%	20%	33%	50%	- -	36%
Articulated Trucks	1	- -	1	1	- -	- -	1	- -	1	- -	- -	- -	- -	- -	5
row %	20%	- -	20%	20%	- -	- -	20%	- -	20%	- -	- -	- -	- -	- -	100%
column %	20%	- -	5%	14%	- -	- -	10%	- -	13%	- -	- -	- -	- -	- -	5%
Total	1	3	20	7	2	2	4	5	5	3	5	5	4	1	67
row %	1%	4%	30%	10%	3%	3%	6%	7%	7%	4%	7%	7%	6%	1%	100%
column %	20%	16%	29%	32%	22%	22%	24%	25%	24%	18%	23%	16%	11%	13%	22%
Total Urban															
Light Commercial Vehicles	- -	2	13	2	1	2	1	3	3	2	4	4	3	1	41
row %	- -	5%	32%	5%	2%	5%	2%	7%	7%	5%	10%	10%	7%	2%	100%
column %	- -	29%	37%	33%	25%	50%	33%	33%	33%	25%	27%	18%	12%	25%	27%
Rigid Trucks	- -	1	6	4	1	- -	2	2	1	1	1	1	1	- -	21
row %	- -	5%	29%	19%	5%	- -	10%	10%	5%	5%	5%	5%	5%	- -	100%
column %	- -	25%	46%	44%	33%	- -	50%	50%	25%	25%	20%	33%	50%	- -	36%
Articulated Trucks	1	- -	1	1	- -	- -	1	- -	1	- -	- -	- -	- -	- -	5
row %	20%	- -	20%	20%	- -	- -	20%	- -	20%	- -	- -	- -	- -	- -	100%
column %	20%	- -	5%	14%	- -	- -	10%	- -	13%	- -	- -	- -	- -	- -	5%
Total	1	3	20	7	2	2	4	5	5	3	5	5	4	1	67
row %	1%	4%	30%	10%	3%	3%	6%	7%	7%	4%	7%	7%	6%	1%	100%
column %	20%	16%	29%	32%	22%	22%	24%	25%	24%	18%	23%	16%	11%	13%	22%
Total State															
Light Commercial Vehicles	- -	7	35	6	4	4	3	9	9	8	15	22	25	4	151
row %	- -	5%	23%	4%	3%	3%	2%	6%	6%	5%	10%	15%	17%	3%	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	- -	4	13	9	3	3	4	4	4	4	5	3	2	- -	58
row %	- -	7%	22%	16%	5%	5%	7%	7%	7%	7%	9%	5%	3%	- -	100%
column %	- -	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	- -	100%
Articulated Trucks	5	8	22	7	2	2	10	7	8	5	2	7	9	4	98
row %	5%	8%	22%	7%	2%	2%	10%	7%	8%	5%	2%	7%	9%	4%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	5	19	70	22	9	9	17	20	21	17	22	32	36	8	307
row %	2%	6%	23%	7%	3%	3%	6%	7%	7%	6%	7%	10%	12%	3%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table A-4: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by Goods Vehicles, 1995 (Million Kilometres).

A U S T R A L I A															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
Light Commercial Vehicles	10	53	432	144	76	110	99	159	145	136	168	163	190	34	1919
row %	1%	3%	23%	8%	4%	6%	5%	8%	8%	7%	9%	8%	10%	2%	100%
column %	29%	26%	31%	25%	24%	31%	19%	30%	33%	30%	29%	28%	25%	26%	28%
Rigid Trucks	32	220	744	269	171	151	251	309	238	108	161	121	145	17	2937
row %	1%	7%	25%	9%	6%	5%	9%	11%	8%	4%	5%	4%	5%	1%	100%
column %	30%	46%	53%	51%	44%	47%	64%	56%	53%	47%	45%	40%	48%	38%	50%
Articulated Trucks	25	174	121	77	58	59	50	88	86	31	36	65	86	18	974
row %	3%	18%	12%	8%	6%	6%	5%	9%	9%	3%	4%	7%	9%	2%	100%
column %	25%	32%	23%	22%	22%	26%	14%	23%	25%	16%	12%	14%	13%	14%	20%
Total	67	447	1297	490	305	320	400	556	469	275	365	349	421	69	5830
row %	1%	8%	22%	8%	5%	5%	7%	10%	8%	5%	6%	6%	7%	1%	100%
column %	28%	36%	39%	34%	32%	35%	31%	38%	38%	31%	30%	26%	24%	22%	33%
Total Urban															
Light Commercial Vehicles	12	71	614	276	134	137	174	230	191	198	239	214	286	39	2815
row %	0%	3%	22%	10%	5%	5%	6%	8%	7%	7%	8%	8%	10%	1%	100%
column %	34%	35%	44%	48%	43%	38%	34%	43%	43%	43%	42%	37%	38%	29%	41%
Rigid Trucks	37	271	920	371	228	219	282	396	286	147	231	167	200	22	3777
row %	1%	7%	24%	10%	6%	6%	7%	10%	8%	4%	6%	4%	5%	1%	100%
column %	35%	57%	65%	70%	59%	69%	72%	71%	63%	64%	64%	55%	66%	49%	64%
Articulated Trucks	36	200	178	118	101	73	82	123	114	50	63	94	141	36	1409
row %	3%	14%	13%	8%	7%	5%	6%	9%	8%	4%	4%	7%	10%	3%	100%
column %	36%	36%	34%	34%	39%	32%	23%	32%	33%	25%	21%	20%	21%	28%	29%
Total	85	542	1712	765	463	429	538	749	591	395	533	475	627	97	8001
row %	1%	7%	21%	10%	6%	5%	7%	9%	7%	5%	7%	6%	8%	1%	100%
column %	35%	44%	51%	53%	48%	47%	42%	51%	48%	45%	43%	35%	36%	32%	45%
Total State															
Light Commercial Vehicles	35	201	1404	574	313	359	519	530	442	458	573	573	751	133	6865
row %	1%	3%	20%	8%	5%	5%	8%	8%	6%	7%	8%	8%	11%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Rigid Trucks	106	477	1410	528	385	318	392	555	453	230	360	303	301	45	5863
row %	2%	8%	24%	9%	7%	7%	9%	5%	8%	4%	6%	5%	5%	1%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Articulated Trucks	101	550	518	343	258	228	362	384	345	197	297	468	680	129	4860
row %	2%	11%	11%	7%	5%	5%	7%	8%	7%	4%	6%	10%	14%	3%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Total	242	1228	3332	1445	956	905	1273	1469	1240	885	1230	1344	1732	307	17588
row %	1%	7%	19%	8%	5%	5%	7%	8%	7%	5%	7%	8%	10%	2%	100%
column %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
- nil or negligible. Numbers may not add due to rounding.															
Sources: A C G (1997). A B S (1998), pers. comm.															

TABLE A-5 : TONNE-KILOMETRES BY DIESEL VEHICLES BY STATE OF REGISTRATION BY AREA OF OPERATION, 1995 (million tonne-kilometres)							
NSW							
Vehicle Type	Area Of Operation						
	Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel	
LCV	72.92	34.71	107.63	325.28	1216.00	26.8%	
row %	22.4%	10.7%	33.1%	100.0%			
column %	1.0%	0.9%	1.0%	1.3%	4.6%		
Rigid Truck	3565.40	1311.97	4877.37	6882.08	7466.00	92.2%	
row %	51.8%	19.1%	70.9%	100.0%			
column %	47.7%	35.9%	43.8%	27.5%	28.1%		
Articulated Truck	3837.30	2310.99	6148.29	17859.92	17926.00	99.6%	
row %	21.5%	12.9%	34.4%	100.0%			
column %	51.3%	63.2%	55.2%	71.2%	67.4%		
Sub total	7475.62	3657.67	11133.29	25067.28	26608.00	94.2%	
row %	29.8%	14.6%	44.4%	100.0%			
column %	100.0%	100.0%	100.0%	100.0%	100.0%		

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

ACT							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		11.26	- -	11.26	14.64	74.00	19.8%
row %		76.9%	- -	76.9%	100.0%		
column %		5.4%	- -	5.4%	2.0%	9.2%	
Rigid Truck		124.03	- -	124.03	231.68	250.00	92.7%
row %		53.5%	- -	53.5%	100.0%		
column %		60.0%	- -	60.0%	32.0%	31.2%	
Articulated Truck		71.42	- -	71.42	477.87	478.00	100.0%
row %		14.9%	- -	14.9%	100.0%		
column %		34.6%	- -	34.6%	66.0%	59.6%	
Sub total		206.71	- -	206.71	724.19	802.00	90.3%
row %		28.5%	- -	28.5%	100.0%		
column %		100.0%	- -	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

VIC							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		96.55	17.49	114.04	181.11	1200.00	15.1%
row %		53.3%	9.7%	63.0%	100.0%		
column %		1.4%	0.5%	1.1%	0.7%	4.1%	
Rigid Truck		2391.91	896.87	3288.78	4656.55	5403.00	86.2%
row %		51.4%	19.3%	70.6%	100.0%		
column %		34.2%	28.0%	32.3%	16.9%	18.4%	
Articulated Truck		4502.36	2284.35	6786.71	22692.45	22714.00	99.9%
row %		19.8%	10.1%	29.9%	100.0%		
column %		64.4%	71.4%	66.6%	82.4%	77.5%	
Sub total		6,990.8	3,198.7	10,189.5	27,530.1	29317.00	93.9%
row %		25.4%	11.6%	37.0%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

QLD							
Vehicle Type			Area Of Operation				
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		87.74	71.99	159.73	382.03	1244.00	30.7%
row %		23.0%	18.8%	41.8%	100.0%		
column %		2.4%	2.8%	2.6%	1.6%	5.1%	
Rigid Truck		1506.06	1346.57	2852.63	4870.97	5107.00	95.4%
row %		30.9%	27.6%	58.6%	100.0%		
column %		41.4%	51.7%	45.7%	20.7%	20.7%	
Articulated Truck		2040.76	1184.54	3225.30	18280.34	18280.00	100.0%
row %		11.2%	6.5%	17.6%	100.0%		
column %		56.1%	45.5%	51.7%	77.7%	74.2%	
Sub total		3634.56	2603.10	6237.66	23533.34	24631.00	95.5%
row %		15.4%	11.1%	26.5%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

SA							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		41.43	- -	41.43	75.77	330.00	23.0%
row %		54.7%	- -	54.7%	100.0%		
column %		3.1%	- -	3.1%	0.7%	2.8%	
Rigid Truck		603.35	- -	603.35	1462.97	1688.00	86.7%
row %		41.2%	- -	41.2%	100.0%		
column %		44.5%	- -	44.5%	12.8%	14.2%	
Articulated Truck		711.68	- -	711.68	9902.55	9902.00	100.0%
row %		7.2%	- -	7.2%	100.0%		
column %		52.5%	- -	52.5%	86.6%	83.1%	
Sub total		1356.46	- -	1356.46	11441.29	11920.00	96.0%
row %		11.9%	- -	11.9%	100.0%		
column %		100.0%	- -	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

W A							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		40.63	- -	40.63	155.49	581.00	26.8%
row %		26.1%	- -	26.1%	100.0%		
column %		1.5%	- -	1.5%	1.1%	4.0%	
Rigid Truck		1072.57	- -	1072.57	2961.00	3352.00	88.3%
row %		36.2%	- -	36.2%	100.0%		
column %		40.9%	- -	40.9%	21.4%	22.9%	
Articulated Truck		1511.54	- -	1511.54	10704.22	10,704.00	100.0%
row %		14.1%	- -	14.1%	100.0%		
column %		57.6%	- -	57.6%	77.5%	73.1%	
Sub total		2624.74	- -	2624.74	13820.71	14637.00	94.4%
row %		19.0%	- -	19.0%	100.0%		
column %		100.0%	- -	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

TAS							
Vehicle Type	Area Of Operation						
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		7.35	7.13	14.48	29.28	106.00	27.6%
row %		25.1%	24.4%	49.5%	100.0%		
column %		1.6%	0.8%	1.1%	1.1%	3.9%	
Rigid Truck		157.36	243.82	401.18	537.94	608.00	88.5%
row %		29.3%	45.3%	74.6%	100.0%		
column %		34.6%	27.3%	29.8%	21.0%	22.5%	
Articulated Truck		290.29	640.67	930.96	1989.18	1989.00	100.0%
row %		14.6%	32.2%	46.8%	100.0%		
column %		63.8%	71.9%	69.1%	77.8%	73.6%	
Sub total		455.00	891.62	1346.62	2556.40	2703.00	94.6%
row %		17.8%	34.9%	52.7%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

NT							
Vehicle Type	Area Of Operation						
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		4.07	- -	4.07	16.80	43.00	39.1%
row %		24.2%	- -	24.2%	100.0%		
column %		1.8%	- -	1.8%	0.5%	1.1%	
Rigid Truck		73.83	- -	73.83	253.59	294.00	86.3%
row %		29.1%	- -	29.1%	100.0%		
column %		33.0%	- -	33.0%	6.9%	7.8%	
Articulated Truck		145.57	- -	145.57	3424.98	3,424.00	100.0%
row %		4.3%	- -	4.3%	100.0%		
column %		65.1%	- -	65.1%	92.7%	91.0%	
Sub total		223.47	- -	223.47	3695.37	3761.00	98.3%
row %		6.0%	- -	6.0%	100.0%		
column %		100.0%	- -	100.0%	100.0%	100.0%	

Table A-5: Tonne-Kilometres by Diesel Vehicles by State of Registration by Area of Operation, 1995 (Million Tonne-Kilometres).

A U S T R A L I A							
Vehicle Type			Area Of Operation				
		Capital City	Provincial Urban	Total Urban	Total	Total State All Fuels	% Diesel
LCV		361.95	131.32	493.27	1180.40	4794.00	24.6%
row %		30.7%	11.1%	41.8%	100.0%		
column %		1.6%	1.3%	1.5%	1.1%	4.2%	
Rigid Truck		9494.51	3799.23	13293.74	21856.78	24168.00	90.4%
row %		43.4%	17.4%	60.8%	100.0%		
column %		41.3%	36.7%	39.9%	20.2%	21.1%	
Articulated Truck		13110.92	6420.55	19531.47	85331.51	85417.00	99.9%
row %		15.4%	7.5%	22.9%	100.0%		
column %		57.1%	62.0%	58.6%	78.7%	74.7%	
Sub total		22967.38	10351.10	33318.48	108368.69	114379.00	94.7%
row %		21.2%	9.6%	30.7%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	
- nil or negligible.							
Numbers may not add due to rounding.							
Sources:							
A C G (1997).							
A B S (1998), pers. comm.							

**TABLE A-6: DIESEL FUEL CONSUMED BY STATE OF REGISTRATION
BY YEAR OF MANUFACTURE, 1995 (Million Litres).**

NSW							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	- -	- -	0.96	0.96	42.98	5.73	50.63
row %	- -	- -	2%	2%	85%	11%	100%
column %	- -	- -	- -	- -	14%	2%	3%
Motorcycle	- -	- -	- -	- -	- -	- -	- -
row %	- -	- -	- -	- -	- -	- -	- -
column %	- -	- -	- -	- -	- -	- -	- -
LCV	2.87	9.57	39.22	88.01	45.92	57.40	242.99
row %	1%	4%	16%	36%	19%	24%	100%
column %	10%	6%	15%	21%	15%	16%	16%
Rigid Truck	9.50	68.39	129.18	129.18	111.14	83.59	530.98
row %	2%	13%	24%	24%	21%	16%	100%
column %	33%	45%	48%	31%	36%	24%	35%
Articulated Truck	7.63	61.07	76.33	164.11	88.74	186.06	583.94
row %	1%	10%	13%	28%	15%	32%	100%
column %	26%	40%	29%	39%	29%	53%	38%
Other Truck	1.41	- -	1.41	0.70	0.70	0.70	4.92
row %	29%	- -	29%	14%	14%	14%	100%
column %	5%	- -	1%	- -	- -	- -	- -
Bus	7.52	13.15	19.73	32.89	18.79	20.67	112.75
row %	7%	12%	17%	29%	17%	18%	100%
column %	26%	9%	7%	8%	6%	6%	7%
Sub total	28.93	152.18	266.83	415.85	308.27	354.15	1526.21
row %	2%	10%	17%	27%	20%	23%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

ACT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	--	4.36	1.09	--	2.18	7.63
row %	--	--	57%	14%	--	29%	100%
column %	--	--	42%	9%	--	17%	16%
Rigid Truck	--	1.01	3.04	5.06	3.04	4.05	16.20
row %	--	6%	19%	31%	19%	25%	100%
column %	--	52%	29%	42%	33%	31%	35%
Articulated Truck	--	0.95	1.91	3.82	2.86	4.77	14.31
row %	--	7%	13%	27%	20%	33%	100%
column %	--	48%	18%	32%	31%	36%	31%
Other Truck	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
Bus	--	--	1.07	2.13	3.20	2.13	8.53
row %	--	--	13%	25%	38%	25%	100%
column %	--	--	10%	18%	35%	16%	18%
Sub total	--	1.96	10.38	12.10	9.10	13.13	46.67
row %	--	4%	22%	26%	19%	28%	100%
column %	--	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

VIC							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	60.17	37.25	--	85.96	183.38
row %	--	--	33%	20%	--	47%	100%
column %	--	--	22%	10%	--	21%	13%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	0.95	3.81	29.54	24.77	22.87	30.49	112.43
row %	1%	3%	26%	22%	20%	27%	100%
column %	5%	3%	11%	7%	10%	7%	8%
Rigid Truck	5.73	32.50	96.54	110.87	62.13	54.48	362.25
row %	2%	9%	27%	31%	17%	15%	100%
column %	30%	25%	36%	31%	27%	13%	25%
Articulated Truck	9.52	86.59	68.51	162.71	136.07	224.56	687.96
row %	1%	13%	10%	24%	20%	33%	100%
column %	50%	67%	25%	45%	58%	54%	48%
Other Truck	--	--	2.46	1.64	2.46	2.46	9.02
row %	--	--	27%	18%	27%	27%	100%
column %	--	--	1%	--	1%	1%	1%
Bus	2.88	6.73	12.49	21.14	9.61	14.42	67.27
row %	4%	10%	19%	31%	14%	21%	100%
column %	15%	5%	5%	6%	4%	3%	5%
Sub total	19.08	129.63	269.71	358.38	233.14	412.37	1422.31
row %	1%	9%	19%	25%	16%	29%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

QLD							
Type	Year Of Manufacture						Total
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	
Passenger	--	--	39.53	26.03	8.68	27.00	101.24
row %	--	--	39%	26%	9%	27%	100%
column %	--	--	15%	9%	4%	8%	8%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	3.81	45.74	41.93	54.31	63.84	209.63
row %	--	2%	22%	20%	26%	30%	100%
column %	--	5%	18%	15%	24%	18%	17%
Rigid Truck	6.65	19.96	94.11	95.06	59.89	66.55	342.22
row %	2%	6%	27%	28%	18%	19%	100%
column %	33%	24%	37%	33%	26%	19%	28%
Articulated Truck	10.48	50.47	59.04	109.52	90.47	174.27	494.25
row %	2%	10%	12%	22%	18%	35%	100%
column %	52%	61%	23%	38%	40%	50%	40%
Other Truck	--	1.64	1.64	2.46	1.64	0.82	8.20
row %	--	20%	20%	30%	20%	10%	100%
column %	--	2%	1%	1%	1%	--	1%
Bus	2.84	6.63	15.16	13.27	13.27	16.11	67.28
row %	4%	10%	23%	20%	20%	24%	100%
column %	14%	8%	6%	5%	6%	5%	6%
Sub total	19.97	82.51	255.22	288.27	228.26	348.59	1222.82
row %	2%	7%	21%	24%	19%	29%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

SA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	5.89	0.98	27.51	--	34.38
row %	--	--	17%	3%	80%	--	100%
column %	--	--	7%	1%	25%	--	7%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	0.95	10.48	20.96	9.53	14.29	56.21
row %	--	2%	19%	37%	17%	25%	100%
column %	--	2%	12%	17%	9%	12%	11%
Rigid Truck	3.85	9.62	23.09	24.05	18.28	25.02	103.91
row %	4%	9%	22%	23%	18%	24%	100%
column %	57%	22%	26%	20%	17%	20%	21%
Articulated Truck	1.92	23.94	37.35	64.17	51.72	79.49	258.59
row %	1%	9%	14%	25%	20%	31%	100%
column %	28%	55%	43%	52%	47%	65%	52%
Other Truck	--	--	0.82	1.64	0.82	--	3.28
row %	--	--	25%	50%	25%	--	100%
column %	--	--	1%	1%	1%	--	1%
Bus	0.97	8.75	9.72	10.70	2.92	3.89	36.95
row %	3%	24%	26%	29%	8%	11%	100%
column %	14%	20%	11%	9%	3%	3%	7%
Sub total	6.74	43.26	87.35	122.50	110.78	122.69	493.32
row %	1%	9%	18%	25%	22%	25%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

WA							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	20.06	18.15	1.91	38.20	78.32
row %	--	--	26%	23%	2%	49%	100%
column %	--	--	12%	13%	2%	20%	11%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	0.96	4.80	21.14	15.37	19.22	52.85	114.34
row %	1%	4%	18%	13%	17%	46%	100%
column %	6%	7%	13%	11%	15%	27%	16%
Rigid Truck	6.64	25.61	42.68	39.83	45.52	24.66	184.94
row %	4%	14%	23%	22%	25%	13%	100%
column %	44%	38%	26%	28%	36%	13%	26%
Articulated Truck	7.63	29.58	76.33	57.25	49.62	67.75	288.16
row %	3%	10%	26%	20%	17%	24%	100%
column %	50%	44%	46%	40%	39%	35%	40%
Other Truck	--	1.23	--	--	1.23	--	2.46
row %	--	50%	--	--	50%	--	100%
column %	--	2%	--	--	1%	--	0%
Bus	--	5.69	6.63	14.21	9.48	9.48	45.49
row %	--	13%	15%	31%	21%	21%	100%
column %	--	9%	4%	10%	7%	5%	6%
Sub total	15.23	66.91	166.84	144.81	126.98	192.94	713.71
row %	2%	9%	23%	20%	18%	27%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

TAS							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	4.78	--	1.91	2.87	9.56
row %	--	--	50%	--	20%	30%	100%
column %	--	--	15%	--	6%	9%	6%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	--	6.92	6.92	5.93	6.92	26.69
row %	--	--	26%	26%	22%	26%	100%
column %	--	--	21%	16%	19%	21%	17%
Rigid Truck	1.03	5.16	9.29	10.33	7.23	4.13	37.17
row %	3%	14%	25%	28%	19%	11%	100%
column %	30%	43%	29%	24%	24%	13%	24%
Articulated Truck	--	5.72	10.50	21.95	12.40	16.22	66.79
row %	--	9%	16%	33%	19%	24%	100%
column %	--	48%	32%	52%	41%	50%	44%
Other Truck	2.46	--	--	--	--	--	2.46
row %	100%	--	--	--	--	--	100%
column %	70%	--	--	--	--	--	2%
Bus	--	1.04	1.04	3.13	3.13	2.08	10.42
row %	--	10%	10%	30%	30%	20%	100%
column %	--	9%	3%	7%	10%	6%	7%
Sub total	3.49	11.92	32.53	42.33	30.60	32.22	153.09
row %	2%	8%	21%	28%	20%	21%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

NT							
Type	Year Of Manufacture						
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	Total
Passenger	--	--	3.50	0.88	2.63	3.50	10.51
row %	--	--	33%	8%	25%	33%	100%
column %	--	--	15%	4%	12%	9%	9%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	--	1.01	4.02	2.01	3.02	8.05	18.11
row %	--	6%	22%	11%	17%	44%	100%
column %	--	15%	17%	9%	13%	20%	15%
Rigid Truck	--	1.02	3.06	4.09	3.06	3.06	14.29
row %	--	7%	21%	29%	21%	21%	100%
column %	--	15%	13%	17%	14%	7%	12%
Articulated Truck	1.91	4.77	11.45	14.31	11.45	18.13	62.02
row %	3%	8%	18%	23%	18%	29%	100%
column %	100%	70%	49%	61%	51%	44%	52%
Other Truck	--	--	--	--	--	1.64	1.64
row %	--	--	--	--	--	100%	100%
column %	--	--	--	--	--	4%	1%
Bus	--	--	1.12	2.24	2.24	6.72	12.32
row %	--	--	9%	18%	18%	55%	100%
column %	--	--	5%	10%	10%	16%	10%
Sub total	1.91	6.80	23.15	23.53	22.40	41.10	118.89
row %	2%	6%	19%	20%	19%	35%	100%
column %	100%	100%	100%	100%	100%	100%	100%

Table A-6: Diesel Fuel Consumed by State of Registration by Year of Manufacture, 1995 (Million Litres).

ALL STATES							
Type	Year Of Manufacture						Total
	To 1974	1975-79	1980-84	1985-88	1989-91	1992-95	
Passenger	--	--	134.89	84.25	85.62	163.26	468.02
row %	--	--	29%	18%	18%	35%	100%
column %	--	--	12%	6%	8%	11%	8%
Motorcycle	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--
LCV	4.78	23.95	161.42	201.06	160.80	236.02	788.03
row %	1%	3%	20%	26%	20%	30%	100%
column %	5%	5%	15%	14%	15%	16%	14%
Rigid Truck	33.40	163.27	400.99	418.47	310.29	265.54	1591.96
row %	2%	10%	25%	26%	19%	17%	100%
column %	35%	33%	36%	30%	29%	18%	28%
Articulated Truck	39.09	263.09	341.42	597.84	443.33	771.25	2456.02
row %	2%	11%	14%	24%	18%	31%	100%
column %	41%	53%	31%	42%	41%	51%	43%
Other Truck	3.87	2.87	6.33	6.44	6.85	5.62	31.98
row %	12%	9%	20%	20%	21%	18%	100%
column %	4%	1%	1%	--	1%	--	1%
Bus	14.21	41.99	66.96	99.71	62.64	75.50	361.01
row %	4%	12%	19%	28%	17%	21%	100%
column %	15%	8%	6%	7%	6%	5%	6%
Sub total	95.35	495.17	1112.01	1407.77	1069.53	1517.19	5697.02
row %	2%	9%	20%	25%	19%	27%	100%
column %	100%	100%	100%	100%	100%	100%	100%
- nil or negligible							
Numbers may not add due to rounding							
Sources:							
ACG (1997)							
ABS (1998), pers. comm.							

**TABLE A- 7 : TOTAL DIESEL FUEL CONSUMED BY FUEL TYPE BY STATE OF REGISTRATION
BY VEHICLE TYPE BY AREA OF OPERATION, 1995 (Million Litres).**

NSW							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		21.0	17.2	38.2	50.6	4,993.2	1.0%
row %		41.5%	34.0%	75.5%	100.0%		
column %		3.7%	7.1%	4.7%	3.3%	68.1%	
Motorcycle		--	--	--	--	26.7	--
row %		--	--	--	--		
column %		--	--	--	--	0.4%	
LCV		44.8	43.8	88.6	243.0	1,024.1	23.7%
row %		18.4%	18.0%	36.5%	100.0%		
column %		7.9%	18.2%	11.0%	15.9%	14.0%	
Rigid Truck		277.4	87.7	365.1	531.0	569.3	93.3%
row %		52.2%	16.5%	68.8%	100.0%		
column %		49.0%	36.4%	45.2%	34.8%	7.8%	
Articulated Truck		150.8	80.1	230.9	583.9	585.9	99.7%
row %		25.8%	13.7%	39.5%	100.0%		
column %		26.6%	33.2%	28.6%	38.3%	8.0%	
Other Truck		2.5	0.8	3.3	4.9	17.6	27.8%
row %		51.0%	16.3%	67.3%	100.0%		
column %		0.4%	0.3%	0.4%	0.3%	0.2%	
Bus		70.1	11.4	81.5	112.8	120.5	93.6%
row %		62.1%	10.1%	72.3%	100.0%		
column %		12.4%	4.7%	10.1%	7.4%	1.6%	
Sub total		566.6	241.0	807.6	1,526.2	7,337.3	20.8%
row %		37.1%	15.8%	52.9%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

ACT							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		--	--	--	--	318.5	--
	row %	--	--	--	--		
	column %	--	--	--	--	79.3%	
Motorcycle		--	--	--	--	1.0	--
	row %	--	--	--	--		
	column %	--	--	--	--	0.2%	
LCV		5.7	--	5.7	7.6	42.1	18.1%
	row %	75.0%	--	75.0%	100.0%		
	column %	21.4%	--	21.4%	16.3%	10.5%	
Rigid Truck		11.4	--	11.4	16.2	17.2	94.2%
	row %	70.4%	--	70.4%	100.0%		
	column %	42.9%	--	42.9%	34.8%	4.3%	
Articulated Truck		1.9	--	1.9	14.3	14.3	100.0%
	row %	13.3%	--	13.3%	100.0%		
	column %	7.1%	--	7.1%	30.7%	3.6%	
Other Truck		--	--	--	--	--	--
	row %	--	--	--	--		
	column %	--	--	--	--	--	
Bus		7.6	--	7.6	8.5	8.5	100.0%
	row %	89.4%	--	89.4%	100.0%		
	column %	28.6%	--	28.6%	18.2%	2.1%	
Sub total		26.6	--	26.6	46.6	401.6	11.6%
	row %	57.1%	--	57.1%	100.0%		
	column %	100.0%	--	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

VIC							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		108.9	17.2	126.1	183.4	4,379.4	4.2%
	row %	59.4%	9.4%	68.8%	100.0%		
	column %	18.5%	10.3%	16.7%	12.9%	67.0%	
Motorcycle		--	--	--	--	17.8	--
	row %	--	--	--	--		
	column %	--	--	--	--	0.3%	
LCV		51.5	13.3	64.8	112.4	930.2	12.1%
	row %	45.8%	11.8%	57.7%	100.0%		
	column %	8.8%	7.9%	8.6%	7.9%	14.2%	
Rigid Truck		210.7	61.0	271.7	362.3	422.8	85.7%
	row %	58.2%	16.8%	75.0%	100.0%		
	column %	35.8%	36.4%	35.9%	25.5%	6.5%	
Articulated Truck		167.9	67.7	235.6	687.9	688.4	99.9%
	row %	24.4%	9.8%	34.2%	100.0%		
	column %	28.5%	40.4%	31.2%	48.4%	10.5%	
Other Truck		6.6	0.8	7.4	9.0	14.4	62.5%
	row %	73.3%	8.9%	82.2%	100.0%		
	column %	1.1%	0.5%	1.0%	0.6%	0.2%	
Bus		42.6	7.6	50.2	67.3	82.6	81.5%
	row %	63.3%	11.3%	74.6%	100.0%		
	column %	7.2%	4.5%	6.6%	4.7%	1.3%	
Sub total		588.2	167.6	755.8	1,422.3	6,535.6	21.8%
	row %	41.4%	11.8%	53.1%	100.0%		
	column %	100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

QLD							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		27.7	27.7	55.4	101.2	3,165.8	3.2%
	row %	27.4%	27.4%	54.7%	100.0%		
	column %	9.4%	13.2%	11.0%	8.3%	63.8%	
Motorcycle		--	--	--	--	23.8	--
	row %	--	--	--	--		
	column %	--	--	--	--	0.5%	
LCV		52.4	41.0	93.4	209.6	833.9	25.1%
	row %	25.0%	19.6%	44.6%	100.0%		
	column %	17.8%	19.6%	18.6%	17.1%	16.8%	
Rigid Truck		112.5	85.8	198.3	342.2	357.5	95.7%
	row %	32.9%	25.1%	57.9%	100.0%		
	column %	38.3%	41.0%	39.4%	28.0%	7.2%	
Articulated Truck		73.5	37.2	110.7	494.3	494.3	100.0%
	row %	14.9%	7.5%	22.4%	100.0%		
	column %	25.0%	17.8%	22.0%	40.4%	10.0%	
Other Truck		3.3	2.5	5.8	8.2	11.5	71.3%
	row %	40.2%	30.5%	70.7%	100.0%		
	column %	1.1%	1.2%	1.2%	0.7%	0.2%	
Bus		24.6	15.2	39.8	67.3	75.7	88.9%
	row %	36.6%	22.6%	59.1%	100.0%		
	column %	8.4%	7.3%	7.9%	5.5%	1.5%	
Sub total		294.0	209.4	503.4	1,222.8	4,962.5	24.6%
	row %	24.0%	17.1%	41.2%	100.0%		
	column %	100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

SA							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		12.4	--	12.4	34.4	1,386.9	2.5%
row %		36.0%	--	36.0%	100.0%		
column %		9.2%	--	9.2%	7.0%	65.8%	
Motorcycle		--	--	--	--	8.9	--
row %		--	--	--	--		
column %		--	--	--	--	0.4%	
LCV		25.7	--	25.7	56.2	288.3	19.5%
row %		45.7%	--	45.7%	100.0%		
column %		19.1%	--	19.1%	11.4%	13.7%	
Rigid Truck		48.6	--	48.6	103.9	117.9	88.1%
row %		46.8%	--	46.8%	100.0%		
column %		36.0%	--	36.0%	21.1%	5.6%	
Articulated Truck		24.8	--	24.8	258.6	258.6	100.0%
row %		9.6%	--	9.6%	100.0%		
column %		18.4%	--	18.4%	52.4%	12.3%	
Other Truck		1.6	--	1.6	3.3	7.6	43.4%
row %		48.5%	--	48.5%	100.0%		
column %		1.2%	--	1.2%	0.7%	0.4%	
Bus		21.8	--	21.8	37.0	40.1	92.3%
row %		58.9%	--	58.9%	100.0%		
column %		16.2%	--	16.2%	7.5%	1.9%	
Sub total		134.9	--	134.9	493.4	2,108.3	23.4%
row %		27.3%	--	27.3%	100.0%		
column %		100.0%	--	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

WA							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		41.1	--	41.1	78.3	1,717.3	4.6%
	row %	52.5%	--	52.5%	100.0%		
	column %	17.5%	--	17.5%	11.0%	63.3%	
Motorcycle		--	--	--	--	6.9	--
	row %	--	--	--	--		
	column %	--	--	--	--	0.3%	
LCV		28.6	--	28.6	114.3	433.1	26.4%
	row %	25.0%	--	25.0%	100.0%		
	column %	12.2%	--	12.2%	16.0%	16.0%	
Rigid Truck		84.8	--	84.8	184.9	204.9	90.2%
	row %	45.9%	--	45.9%	100.0%		
	column %	36.2%	--	36.2%	25.9%	7.6%	
Articulated Truck		50.6	--	50.6	288.2	288.2	100.0%
	row %	17.6%	--	17.6%	100.0%		
	column %	21.6%	--	21.6%	40.4%	10.6%	
Other Truck		1.6	--	1.6	2.5	15.5	16.1%
	row %	64.0%	--	64.0%	100.0%		
	column %	0.7%	--	0.7%	0.4%	0.6%	
Bus		27.5	--	27.5	45.5	47.5	95.8%
	row %	60.4%	--	60.4%	100.0%		
	column %	11.7%	--	11.7%	6.4%	1.8%	
Sub total		234.2	--	234.2	713.7	2,713.4	26.3%
	row %	32.8%	--	32.8%	100.0%		
	column %	100.0%	--	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

TAS							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		2.9	4.8	7.7	9.6	394.1	2.4%
	row %	30.2%	50.0%	80.2%	100.0%		
	column %	7.6%	9.9%	8.9%	6.3%	63.1%	
Motorcycle		--	--	--	--	2.9	--
	row %	--	--	--	--		
	column %	--	--	--	--	0.5%	
LCV		5.7	6.7	12.4	26.7	106.4	25.1%
	row %	21.3%	25.1%	46.4%	100.0%		
	column %	15.0%	13.8%	14.3%	17.4%	17.0%	
Rigid Truck		12.4	13.3	25.7	37.2	41.2	90.3%
	row %	33.3%	35.8%	69.1%	100.0%		
	column %	32.6%	27.4%	29.7%	24.3%	6.6%	
Articulated Truck		10.5	21.0	31.5	66.8	66.8	100.0%
	row %	15.7%	31.4%	47.2%	100.0%		
	column %	27.6%	43.2%	36.4%	43.6%	10.7%	
Other Truck		0.8	--	0.8	2.5	2.5	100.0%
	row %	32.0%	--	32.0%	100.0%		
	column %	2.1%	--	0.9%	1.6%	0.4%	
Bus		5.7	2.8	8.5	10.4	10.4	100.0%
	row %	54.8%	26.9%	81.7%	100.0%		
	column %	15.0%	5.8%	9.8%	6.8%	1.7%	
Sub total		38.0	48.6	86.6	153.2	624.3	24.5%
	row %	24.8%	31.7%	56.5%	100.0%		
	column %	100.0%	100.0%	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

NT							
Vehicle Type		Area Of Operation					
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		1.9	- -	1.9	10.5	108.8	9.7%
	row %	18.1%	- -	18.1%	100.0%		
	column %	9.1%	- -	9.1%	8.8%	43.5%	
Motorcycle		- -	- -	- -	- -	1.0	- -
	row %	- -	- -	- -	- -		
	column %	- -	- -	- -	- -	0.4%	
LCV		4.8	- -	4.8	18.1	48.3	37.5%
	row %	26.5%	- -	26.5%	100.0%		
	column %	23.1%	- -	23.1%	15.2%	19.3%	
Rigid Truck		5.7	- -	5.7	14.3	16.3	87.7%
	row %	39.9%	- -	39.9%	100.0%		
	column %	27.4%	- -	27.4%	12.0%	6.5%	
Articulated Truck		4.8	- -	4.8	62.0	62.0	100.0%
	row %	7.7%	- -	7.7%	100.0%		
	column %	23.1%	- -	23.1%	52.2%	24.8%	
Other Truck		0.8	- -	0.8	1.6	1.6	100.0%
	row %	50.0%	- -	50.0%	100.0%		
	column %	3.8%	- -	3.8%	1.3%	0.6%	
Bus		2.8	- -	2.8	12.3	12.3	100.0%
	row %	22.8%	- -	22.8%	100.0%		
	column %	13.5%	- -	13.5%	10.4%	4.9%	
Sub total		20.8	- -	20.8	118.8	250.3	47.5%
	row %	17.5%	- -	17.5%	100.0%		
	column %	100.0%	- -	100.0%	100.0%	100.0%	

Table A-7: Total Diesel Fuel Consumed by Fuel Type by State of Registration by Vehicle Type by Area of Operation, 1995 (Million Litres).

AUSTRALIA							
Vehicle Type	Area Of Operation						
		Capital City	Provincial Urban	Total Urban	Total State	Total State All Fuels	% Diesel
Passenger		215.9	66.9	282.8	468.0	16,464.0	2.8%
row %		46.1%	14.3%	60.4%	100.0%		
column %		11.3%	10.0%	11.0%	8.2%	66.0%	
Motorcycle		--	--	--	--	89.0	--
row %		--	--	--	--		
column %		--	--	--	--	0.4%	
LCV		219.2	104.8	324.0	787.9	3,706.4	21.3%
row %		27.8%	13.3%	41.1%	100.0%		
column %		11.5%	15.7%	12.6%	13.8%	14.9%	
Rigid Truck		763.5	247.8	1,011.3	1,592.0	1,747.1	91.1%
row %		48.0%	15.6%	63.5%	100.0%		
column %		40.1%	37.2%	39.4%	27.9%	7.0%	
Articulated Truck		484.8	206.0	690.8	2,456.0	2,458.5	99.9%
row %		19.7%	8.4%	28.1%	100.0%		
column %		25.5%	30.9%	26.9%	43.1%	9.9%	
Other Truck		17.2	4.1	21.3	32.0	70.7	45.3%
row %		53.8%	12.8%	66.6%	100.0%		
column %		0.9%	0.6%	0.8%	0.6%	0.3%	
Bus		202.7	37.0	239.7	361.1	397.6	90.8%
row %		56.1%	10.2%	66.4%	100.0%		
column %		10.6%	5.6%	9.3%	6.3%	1.6%	
Sub total		1,903.3	666.6	2,569.9	5,697.0	24,933.3	22.8%
row %		33.4%	11.7%	45.1%	100.0%		
column %		100.0%	100.0%	100.0%	100.0%	100.0%	
- nil or negligible.							
Numbers may not add due to rounding.							
Sources:							
ACG (1997).							
ABS (1998), pers. comm.							

TABLE A-8: DISTANCE TRAVELLED BY STATE/TERRITORY OF REGISTRATION BY AREA OF OPERATION BY YEAR OF MANUFACTURE BY 4WD, 1995 (Million Kilometres)																
NSW																
Type	Year Of Manufacture															
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total	
Capital City																
4WD	--	--	--	--	--	--	--	--	0.1	142.0	1.6	1.4	--	3.2	148.3	
row %	--	--	--	--	--	--	--	--	0%	96%	1%	1%	--	2%	100%	
column %	--	--	--	--	--	--	--	--	0%	91%	43%	29%	--	80%	50%	
Total Urban																
4WD	--	--	--	--	--	--	--	--	64.1	154.4	3.6	1.4	--	3.2	226.7	
row %	--	--	--	--	--	--	--	--	28%	68%	2%	1%	--	1%	100%	
column %	--	--	--	--	--	--	--	--	50%	99%	97%	30%	--	80%	76%	
Total State																
4WD	--	--	--	--	--	--	--	--	129.1	155.6	3.7	4.8	--	4.0	297.2	
row %	--	--	--	--	--	--	--	--	43%	52%	1%	2%	--	1%	100%	
column %	--	--	--	--	--	--	--	--	100%	100%	100%	100%	--	100%	100%	

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

ACT																
Type	Year Of Manufacture															
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total	
Capital City																
4WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Urban																
4WD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
row %	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
column %	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total State																
4WD	--	--	--	--	--	--	--	0.5	--	0.2	--	0.3	--	--	--	1.0
row %	--	--	--	--	--	--	--	50%	--	20%	--	30%	--	--	--	100%
column %	--	--	--	--	--	--	--	100%	--	100%	--	100%	--	--	--	100%

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

VIC																
Type	Year Of Manufacture															
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total	
Capital City																
4WD	--	--	--	--	247.2	--	--	--	--	0.1	--	637.8	2.3	2.3	889.7	
row %	--	--	--	--	28%	--	--	--	--	0%	--	72%	0%	0%	100%	
column %	--	--	--	--	84%	--	--	--	--	11%	--	90%	100%	92%	76%	
Total Urban																
4WD	--	--	78.9	--	250.8	--	--	--	--	0.6	--	673.1	2.3	2.3	1008.0	
row %	--	--	8%	--	25%	--	--	--	--	0%	--	67%	0%	0%	100%	
column %	--	--	50%	--	85%	--	--	--	--	67%	--	95%	100%	92%	86%	
Total State																
4WD	--	--	157.8	--	295.7	--	--	--	--	0.9	--	708.4	2.3	2.5	1167.6	
row %	--	--	14%	--	25%	--	--	--	--	0%	--	61%	0%	0%	100%	
column %	--	--	100%	--	100%	--	--	--	--	100%	--	100%	100%	100%	100%	

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

QLD															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
4WD	--	--	165.3	97.8	--	--	--	--	5.4	1.1	--	--	0.5	--	270.1
row %	--	--	61%	36%	--	--	--	--	2%	0%	--	--	0%	--	100%
column %	--	--	66%	35%	--	--	--	--	8%	85%	--	--	0%	--	34%
Total Urban															
4WD	--	--	227.1	97.8	--	--	--	--	8.1	1.1	54.1	1.0	0.5	--	389.7
row %	--	--	58%	25%	--	--	--	--	2%	0%	14%	0%	0%	--	100%
column %	--	--	91%	35%	--	--	--	--	12%	85%	100%	48%	0%	--	49%
Total State															
4WD	--	--	250.2	276.2	--	--	--	--	64.9	1.3	54.1	2.1	102.4	42.8	794.0
row %	--	--	32%	35%	--	--	--	--	8%	0%	7%	0%	13%	5%	100%
column %	--	--	100%	100%	--	--	--	--	100%	100%	100%	100%	100%	100%	100%

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

SA															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
4WD	--	--	0.1	--	--	--	--	81.7	--	2.0	0.5	--	--	0.2	84.5
row %	--	--	0%	--	--	--	--	97%	--	2%	1%	--	--	0%	100%
column %	--	--	100%	--	--	--	--	63%	--	3%	63%	--	--	100%	40%
Total Urban															
4WD	--	--	0.1	--	--	--	--	81.7	--	2.0	0.5	--	--	0.2	84.5
row %	--	--	0%	--	--	--	--	97%	--	2%	1%	--	--	0%	100%
column %	--	--	100%	--	--	--	--	63%	--	3%	63%	--	--	100%	40%
Total State															
4WD	--	--	0.1	--	--	--	--	130.7	--	78.9	0.8	--	--	0.2	210.7
row %	--	--	0%	--	--	--	--	62%	--	37%	0%	--	--	0%	100%
column %	--	--	100%	--	--	--	--	100%	--	100%	100%	--	--	100%	100%

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

WA															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
4WD	--	--	93.0	88.5	--	--	--	1.1	2.0	0.3	29.1	0.4	57.1	--	271.5
row %	--	--	34%	33%	--	--	--	0%	1%	0%	11%	0%	21%	--	100%
column %	--	--	67%	100%	--	--	--	26%	48%	8%	71%	10%	25%	--	52%
Total Urban															
4WD	--	--	93.0	88.5	--	--	--	1.1	2.0	0.3	29.1	0.4	57.1	--	271.5
row %	--	--	34%	33%	--	--	--	0%	1%	0%	11%	0%	21%	--	100%
column %	--	--	67%	100%	--	--	--	26%	48%	8%	71%	10%	25%	--	52%
Total State															
4WD	--	--	139.5	88.5	--	--	--	4.2	4.2	3.6	40.9	4.0	232.9	1.9	519.7
row %	--	--	27%	17%	--	--	--	1%	1%	1%	8%	1%	45%	0%	100%
column %	--	--	100%	100%	--	--	--	100%	100%	100%	100%	100%	100%	100%	100%

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

TAS															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
4WD	--	--	--	--	--	--	--	--	0.1	0.7	--	--	28.4	--	29.2
row %	--	--	--	--	--	--	--	--	0%	2%	--	--	97%	--	100%
column %	--	--	--	--	--	--	--	--	100%	7%	--	--	96%	--	73%
Total Urban															
4WD	--	--	--	--	--	--	0.2	--	0.1	1.8	--	--	29.2	--	31.3
row %	--	--	--	--	--	--	1%	--	0%	6%	--	--	93%	--	100%
column %	--	--	--	--	--	--	50%	--	100%	18%	--	--	99%	--	78%
Total State															
4WD	--	--	0.3	--	--	--	0.4	--	0.1	9.8	--	--	29.5	--	40.1
row %	--	--	1%	--	--	--	1%	--	0%	24%	--	--	74%	--	100%
column %	--	--	100%	--	--	--	100%	--	100%	100%	--	--	100%	--	100%

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

NT																
Type	Year Of Manufacture															
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total	
Capital City																
4WD	--	--	0.6	--	--	--	--	3.7	0.1	3.7	2.3	0.1	0.3	1.1	11.9	
row %	--	--	5%	--	--	--	--	31%	1%	31%	19%	1%	3%	9%	100%	
column %	--	--	3%	--	--	--	--	82%	1%	88%	31%	1%	9%	69%	17%	
Total Urban																
4WD	--	--	0.6	--	--	--	--	3.7	0.1	3.7	2.3	0.1	0.3	1.1	12	
row %	--	--	5%	--	--	--	--	31%	1%	31%	19%	1%	3%	9%	100%	
column %	--	--	3%	--	--	--	--	82%	1%	88%	31%	1%	9%	69%	17%	
Total State																
4WD	--	--	23.5	--	0.2	--	2.3	4.5	9.6	4.2	7.5	12.8	3.4	1.6	69.6	
row %	--	--	34%	--	0%	--	3%	6%	14%	6%	11%	18%	5%	2%	100%	
column %	--	--	100%	--	100%	--	100%	100%	100%	100%	100%	100%	100%	100%	100%	

Table A-8: Distance Travelled by State/Territory of Registration by Area of Operation by Year of Manufacture by 4WD, 1995 (Million Kilometres).

AUSTRALIA															
Type	Year Of Manufacture														
	To 1974	1975-79	1980-84	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Total
Capital City															
4WD	--	--	259.0	186.3	247.2	--	0.0	86.5	7.7	149.9	33.5	639.7	88.6	6.8	1705.2
row %	--	--	15%	11%	14%	--	0%	5%	0%	9%	2%	38%	5%	0%	100%
column %	--	--	45%	51%	84%	--	0%	62%	4%	59%	31%	87%	24%	13%	55%
Total Urban															
4WD	--	--	399.7	186.3	250.8	--	0.2	86.5	74.4	163.9	89.6	676.0	89.4	6.8	2023.6
row %	--	--	20%	9%	12%	--	0%	4%	4%	8%	4%	33%	4%	0%	100%
column %	--	--	70%	51%	85%	--	7%	62%	36%	64%	84%	92%	24%	13%	65%
Total State															
4WD	--	--	571.4	364.7	295.9	--	2.7	139.9	207.9	254.5	107.0	732.4	370.5	53.0	3099.9
row %	--	--	18%	12%	10%	--	0%	5%	7%	8%	3%	24%	12%	2%	100%
column %	--	--	100%	100%	100%	--	100%	100%	100%	100%	100%	100%	100%	100%	100%

APPENDIX B: DISCUSSIONS WITH MANUFACTURERS ON EMISSION STANDARDS

The following discussion pertains to conversations between Mr Bob Murphy and vehicle manufacturers. Mr Murphy's summary and interpretation of these conversations is provided below.

The vehicle census information from the ABS does not seem to give much of the information necessary for making projections because it does not specify the type of engine or even national origin of the engine.

Several other factors make the task of classifying individual emission standards of vehicles on the census almost impossible without further data. The main reasons are:

1. The US truck manufacturers use Detroit, Cummins and Caterpillar engines and there is no way to find out what engines each had from census information.
2. Many diesel engines in use in Australia use have emissions standards far stricter than what Australia requires.
3. According to several major engine manufacturers, as engines become more complex it becomes harder and harder to de-tune the engines from, say Euro 2 to Euro 1 or EPA98 to EPA94 or EPA91 (the current requirement in Australia).
4. Even vertically integrated truck builders often have a mixture of old and new design engines in their model line-up with varying emissions standards.

The largest diesel engines in articulated trucks have levels of technology which are currently un-economic for small engines, such as turbo-intercooling, wastegate turbos, electronic controls, advanced injection systems, etc. It is likely that technology will work its way down as emission controls tighten. There is in many ways a cost penalty but the heavy engine manufacturers maintain there are also benefits in fuel consumption, engine longevity etc.

Cummins

Cummins Engine Company is a US based manufacturer with the major share of the US heavy truck engine market. They have just released a revolutionary new 15 litre DOHC engine which is available in ratings up to 600 hp and 2,050 lb ft. It is likely that the new technology will increase their dominance in the medium term as the engine gains acceptance.

Volvo has announced Cummins is its new "engine partner" so Cummins is likely to have considerable influence in Europe. Cummins Australia says they will have closed the gap between the Australian and US engines to one year by 1999. Cummins is running EPA 94 in 1998 and EPA 98 in 1999.

Caterpillar

It is Caterpillar Australia's official policy to offer the latest US emissions standards as standard on Australian engines.

US EPA 91 in 1991

US EPA 98 in 1998

The 3126, their first engine is certified on EPA99 and will be imported in EPA99 form from early next year.

Detroit Diesel

Currently on EPA91. Moving to EPA94 shortly (1999).

Some Detroit engines in imported trucks already on EPA98. The difference between EPA94 and 98 is both hardware (turbos, camshafts, injectors and water pumps) and software. There will be significant changes to their main engine because of EPA99.

Scania

Scania builds all its own engines and firmly believes in the world truck concept.

Scania Australia trucks moved to Euro 1 with its "3" series trucks in 1988 and to Euro 2 with its "4" series trucks in 1997.

Mercedes-Benz

Mercedes trucks imported to Australia come with the same engine as in Europe. Their emission levels cannot be practically varied. All current Mercedes Benz engines are configured to Euro 2.

Previous models are Euro 1 right back to its adoption in Europe. Before Euro 1, Benz imported LEVs (Low Emission Vehicles) engines. Benz truck sales are low in Australia and the marque is unlikely to gain significant market share against the Americans at the heavy end of the market.

Isuzu

The market share of Isuzu vehicles is up to 25% in some categories. It's engines have been more innovative and advanced than the other Japanese manufacturers for at least the past twenty years.

They can produce Euro 2 now for Australian vehicles but there is a "cost sacrifice" as they need to go to four valves per cylinder and electronic controls for Euro 2. Catalysts will not be necessary in most instances to meet Euro 2. The engines are Euro 1 compliant now with Euro 2 compliance by 1999.

Mitsubishi

Mostly Japanese standards but some are to Euro 1 standards. Fuel is the problem.

Mazda

Follow ADRs with minor adjustments. "Certification numbers well below standards."

Mazda Australia uses an "Export Market" engine. It is a standard base engine tuned to local conditions and fuel. Certified EEC 1991 directive, Clause 612.

Nissan UD

Only introduces new standards when required.

Went to Euro 1 as soon as ADR70 came into effect.

Euro 2 in 2002 for new models, 2003 for current models.

They also have Japanese, European and US spec engines for those markets.

Hino

Hino is one of the largest heavy vehicle/engine manufacturers in the world. Hino's latest engines are quite interesting in that the base engine is standard but the engine is produced in variants for Europe, the US, California, and Australia plus a few other variants.

It is able to offer cheaper engines in Australia because local standards do not require the use of electronic controls, turbos and other expensive items.

Mack

At ADR70, went to EPA91

Currently running EPA94

Mack Australia likely to move to EPA98 in the near future.

Currently running Euro 1, mostly. Some Euro 2.

IVECO

The new IVECO engines in 2000 will all be Euro 3 but if no local requirement, might remain Euro 2.

Perkins

International uses the Perkins Phaser in some of its two axle trucks.

Perkins only comes in Euro 1.

Toyota

Comply with ADR70.

APPENDIX C: DETAILED COUNTRY OF ORIGIN ESTIMATES FOR DIESEL ENGINES

All figures in this appendix were estimated by Bob Murphy in November and December, 1998.

11 LIGHT	COMMERCIAL VEHICLES								Total	Total	Engine
BUILDER	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	Not Stated	Diesels	Vehicles	From
Chrysler	0	0	0	0	0	0	0	0	0	7881	-
Daihatsu	0	0	0	0	0	488	456	5	949	23,993	JAP
Dodge	0	0	0	0	0	0	0	0	0	4,338	-
Ford	0	5,206	11,238	9,971	5,476	4,182	6,576	148	42,797	296,139	JAP
Holden	2,258	5,097	4,026	2,421	4,174	4,637	6,245	108	28,966	294,159	JAP
Land Rover	0	0	0	0	0	0	0	0	0	20,206	-
Leyland	0	0	0	0	0	0	0	0	0	5,849	-
Mazda	0	2,416	6,120	2,332	2,023	2,636	5,663	46	21,236	74,892	JAP
Mitsubishi	0	0	2,496	2,042	1,879	2,115	1,855	16	10,403	122,441	JAP
Nissan	0	0	2,280	1,488	1,455	1,371	1,713	40	8,347	171,268	JAP
Subaru	0	0	0	0	0	0	0	0	0	21,784	-
Suzuki	0	0	0	0	0	0	0	0	0	39,727	-
Toyota	0	6,433	13,979	11,483	11,181	13,403	14,880	178	71,537	373,995	JAP
Volkswagen	0	0	0	0	0	0	0	0	0	17,875	-
TOTAL	2258	19152	40139	29737	26188	28832	37388	541	184235	1474547	JAP
Total US	0	0	0	0	0	0	0	0	0		
Total EU	0	0	0	0	0	0	0	0	0		
Total JAP	2,258	19,152	40,139	29,737	26,188	28,832	37,388	541	184,235		
%US	0	0	0	0	0	0	0	0			
%EU	0	0	0	0	0	0	0	0			
%JAP	100	100	100	100	100	100	100	100			
%Total	100	100	100	100	100	100	100	100			

13 RIGID TRUCKS - Only diesels counted									Total	Total	Engine
BUILDER	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	Not Stated	Diesels	Vehicles	From
Bedford-UK	3,800	0	0	0	0	0	0	50	3,850	9,550	EU
Bedford-Isuzu	6,599	802	5	1	0	0	0	219	7,626	7,626	JAP
Daihatsu	2,239	5,341	6,618	3,230	655	488	456	80	19,107	23,928	JAP
Dodge	0	0	0	0	0	0	0	0	0	13,071	No diesels
Ford Louisville	2,336	2,746	2,542	1,213	970	657	1,002	75	11,541	14,563	US
Ford Cargo & "D"	4,854	3,541	2,319	642	319	256	0	129	12,060	17,799	EU
Ford Trader	0	900	3,674	3,150	1,270	801	932	67	10,794	10,794	JAP
Hino	901	3,234	6,176	3,450	2,126	1,965	1,860	86	19,798	19,798	JAP
International	13,913	5,707	2,644	2,841	1,205	1,062	1,737	513	29,622	48,064	US
International 163	0	200	200	0	0	0	0	0	400	400	JAP
Isuzu	1,878	7,074	12,165	8,843	5,716	5,498	5,823	160	47,257	47,257	JAP
Mazda	1,191	1,559	4,217	2,907	1,656	1,395	1,411	47	24,746	25,746	JAP
Mercedes-Benz	1,285	633	1,156	577	412	338	257	23	4,681	4,681	EU
Mitsubishi	108	4,025	8,581	6,946	4,286	3,835	4,071	99	31,951	31,951	JAP
Nissan	627	271	577	186	56	13	0	9	1,739	3,481	JAP
Nissan UD	729	1,108	1,883	1,565	860	677	867	31	7,996	7,996	JAP
Toyota	4,351	3,388	4,176	3,213	1,670	1,518	1,375	146	19,837	32,914	JAP
Volvo	1,585	1,393	1,360	991	635	384	537	21	6,906	6,906	EU
TOTAL	46,396	41,922	58,293	39,755	21,836	18,887	20,328	1,755	259,911	326,525	
Diesel engine origins									Diesels	All	
Total US	16,249	8,453	5,186	4,054	2,175	1,719	2,739	588	41,163	62,627	
Total EU	11,524	5,567	4,835	2,210	1,366	978	794	223	27,497	38,936	
Total JAP	18,623	27,902	48,272	33,491	18,295	16,190	16,795	944	191,251	224,962	
	46,396	41,922	58,293	39,755	21,836	18,887	20,328	1,755	259,911	326,525	
	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95				
%US	35.02	20.16	8.90	10.20	9.96	9.10	13.47	33.50	15.84		
%EU	24.84	13.28	8.29	5.56	6.26	5.18	3.91	12.71	10.58		
%JAP	40.14	66.56	82.81	84.24	83.78	85.72	82.62	53.79	73.58		
%Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00		

15 ARTICULATED TRUCKS									Total	Total	Engine
BUILDER	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	Not Stated	Diesels	Vehicles	From
Atkinson	447	209	194	45	0	0	0	5	900	900	EU
Ford	704	789	1,049	1,063	419	433	857	14	5,328	5,328	USA
Freightliner	0	0	0	47	133	286	546	1	1,013	1,013	USA
International	2,301	1,796	1,294	1,097	466	536	1,013	53	8,556	8,556	USA
Kenworth	1,840	1,543	1,478	1,467	530	905	1,345	24	9,132	9,132	USA
Mack	1,379	1,008	961	1,133	477	416	1,226	14	6,614	6,614	USA
Mercedes-Benz	1,934	468	792	464	193	235	250	29	4,365	4,365	EU
Mitsubishi	5	25	244	205	79	32	50	0	640	640	JAP
Nissan UD	337	322	352	223	143	66	84	2	1,529	1,529	JAP
Scania	311	403	901	672	411	271	419	11	3,399	3,399	EU
Volvo	1,182	848	900	1,052	731	561	851	31	6,156	6,156	EU
Western Star	0	0	122	273	171	212	673	5	1,456	1,456	USA
White	654	614	4	1	0	0	0	6	1,279	1,279	USA
TOTAL	11,094	8,025	8,291	7,742	3,753	3,953	7,314	195	50,367	50,367	
Total US	6,878	5,750	4,908	5,081	2,196	2,788	5,660	117	33,378	33,378	USA
Total EU	3,874	1,928	2,787	2,233	1,335	1,067	1,520	76	14,820	14,820	EU
Total JAP	342	347	596	428	222	98	134	2	2,169	2,169	JAP
%US	62.00	71.65	59.20	65.63	58.51	70.53	77.39	60.00	66.27	66.27	USA
%EU	34.92	24.02	33.61	28.84	35.57	26.99	20.78	38.97	29.42	29.42	EU
%JAP	3.08	4.32	7.19	5.53	5.92	2.48	1.83	1.03	4.31	4.31	JAP
%Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

19 Buses									Total	Total	Engine
BUILDER	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95	Not Stated	Diesels	Vehicles	From
Bedford	886	462	7	2	4	0	0	12	1,373	2,341	EU
Denning	231	245	284	198	46	26	11	11	1,052	1,052	US
Hino	367	464	594	440	287	393	370	34	2,949	2,949	JAP
Leyland	1,018	321	278	117	30	1	0	36	1,801	1,801	EU
MAN	147	383	301	285	93	109	262	2	1,582	1,706	EU
Mazda	0	0	84	47	31	32	14	1	209	2,493	JAP
Mercedes-Benz	539	863	1,160	789	273	442	723	33	4,822	4,951	EU
Nissan	0	45	319	207	128	118	102	1	920	3,111	JAP
Renault	0	0	64	320	154	75	31	0	644	644	EU
Scania	2	2	150	189	117	188	250	9	907	907	EU
Toyota	0	444	1,589	2,212	3,077	3,301	3,330	30	13,983	27,205	JAP
Vdvo	606	425	525	369	196	227	197	13	2,558	2,558	EU
Other (not stated)	724	509	665	573	221	230	236	21	3,179	3,643	EU
TOTAL	4,520	4,163	6020	5748	4657	5142	5526	203	35,979	55,361	
Total US	231	245	284	198	46	26	11	11	1,052	1,052	US
Total EU	3,922	2,965	3,150	2,644	1,088	1,272	1,699	126	16,866	18,551	EU
Total JAP	367	953	2,586	2,906	3,523	3,844	3,816	66	18,060	35,758	JAP
	4520	4163	6,020	5,748	4,657	5,142	5,526	203	35,979	55,361	
	<1978	1979-82	1983-86	1987-89	1990-91	1992-93	1994-95				
%US	5.11	5.89	4.72	3.44	0.99	0.51	0.20	5.42	2.92	1.90	
%EU	86.77	71.22	52.33	46.00	23.36	24.74	30.75	62.07	46.88	33.51	
%JAP	8.12	22.89	42.96	50.56	75.65	74.76	69.06	32.51	50.20	64.59	
%Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

APPENDIX D: DIESEL VEHICLE EMISSION FACTOR COMPILATION

by Charles Xu, EPA NSW

1. VEHICLE CATEGORY

For this compilation diesel vehicles are categorised into Passenger Cars, Light-duty Commercial, Light Heavy-duty Commercials, Medium Heavy-duty Commercials, Heavy Heavy-duty Commercials, and Buses (Table 1).

Table 1: Diesel Vehicle Categories

Vehicle Type	Definition
Passenger Cars	
Light Duty Commercials	
Light Heavy-duty Commercials	3.5 – 8 t
Medium Heavy-duty Commercials	8 – 15 t
Heavy Heavy-duty Commercials	> 15 t
Buses	

Vehicle mass cut-points for the three types of heavy-duty commercials are rather arbitrary as the US, Europe and Japan all have different weight ranges.

2. GENERAL METHOD

- The major information sources are the USPEA's motor vehicle emission compilation – AP-42 (1995 version), USEPA's particulate model PART5, and European Emission Inventory Guidebook.
- The US EPA has recently updated the emission factors for heavy-duty vehicles of MY1988 and beyond. The updated data, proposed for use in MOBILE6, were arranged in four categories, namely Light, Medium and Heavy trucks and buses, inconsistent with AP-42 (or MOBILE5) which only use one single category for heavy duty diesel vehicles. For the US model years of 1987 and before arrangements were therefore made to generate emission factors into the four types. This problem does not exist for particulate emissions as PART5 already provide emission factors in this category.
- European Emission Inventory Guidebook has provided emission factors, as functions of average speed, for different types of "conventional" vehicles – vehicles before EURO1, and "reduction factors" for conversions under EURO2 and 3.
- No emission data for Japanese vehicles are available to us so far. The only way in which we can figure out what Japanese emissions are like is through the comparison of its emission standards with those of EU and US.
- As updated US heavy-duty emission factors are expressed in engine-unit gram/bhp-h, they were converted into the unit of gram/mile using unit conversion factors (time-specific) decoded from the PART5 program.

-
- As EU emission factors are believed to be developed for average useful life (so no deterioration rates provided) and on-road driving conditions, we chose to use US emission factors calculated for 100,000-mile mileage for consistency, and did not apply any test-cycle conversion factors between US and EU emission factors. Hence in the use of the emission factors compiled, no deterioration rates should be used. This is justified by the relatively insignificant deterioration rates of heavy duty diesel vehicles as shown in AP-42.

3. TIME DELAY SCHEME

It has been realised that emission control levels of imported heavy-duty vehicles are years behind their counterparts used domestically due to the lag of emission standards implementation. A time-delay scheme is assumed (Table 2), somehow arbitrarily, but based on Jon-Cox survey, to derive emission factors for imported vehicles from original data applied for domestically used vehicles.

Table 2: Time-delay Scheme

Vehicles imported from US

Yr 85-94: 60% pre-85 emission levels + 40% then domestic control levels;
 Yr 95-96 (ADR70): 60% US91 control levels + 40% then domestic control levels;
 Yr 97: 30% US91 control levels + 30% US94 control levels + 40% then domestic control levels;
 Yr 98: 60% US94 control levels + 40% then domestic control levels;
 Yr 99-2002: 40% US94 control levels + 60% then domestic control levels;
 Yr 03 - 06: 100% real-time US domestic standards (supposedly tighter than adopted EURO standards);
 Yr 07+: 100% adopted EURO standards.

Vehicles imported from EU

Yr -90: 100% then domestic control levels;
 Yr 91-94 (EURO1): 50% Yr90 levels + 50% then domestic levels;
 Yr 97-2000: 50% Yr95 levels + 50% then domestic levels;
 Yr 2001-2002: 20% Yr95 levels + 60% Yr99 levels + 20% then domestic levels (EURO3);
 Yr 2003-2006: EURO2 for light heavy duty and EURO3 for medium to heavy heavy duty;
 Yr 2007+: 100% EURO4 standards.

Vehicles imported from Japan

Yr-94: 100% pre-EURO1 levels;

Yr 95-98: 100% EURO1 levels;

Yr 99 - 2002: 20% EURO2 levels + 80% EURO1 levels;

Yr 2003+: Same as European vehicles.

4. PARTICULATE EMISSIONS

US

- Particulate emission factors by model years for US vehicles are all from PART5, with those of MY86 onwards being updated using new USPEA data.
- As PART5 further breakdowns Light Heavy-duty Trucks into 2 weight classes (2B Heavy-Duty and Light Heavy Duty), they are averaged to represent the combined Light Heavy-Duty.

EU

- EU emission factors for the year before EURO1, model years under EURO1 and EURO2 are calculated using the equations and factors provided by the EU Emission Inventory Guidebook assuming the average speed equal to 31.6 km/h.
- Assume US 1970 levels representing early un-control levels and applicable to EU and JP as well.
- As the history of un-control has a large span (ended at early 90s), we assume a gradual (linear) decrease in emission factors from 1970 levels to the pre-EURO levels.

JP

- As Japanese PM standards have roughly a similar time-frame to EUROS. We assume the levels of the last-year of pre-control is the same as pre-EURO ("conventional") levels. The years between yr 1970 and the last year are filled with linearly reduced emission factors.
- First control levels of JP vehicles are in general made proportional to EU levels against the ratios of the Japan standards to EURO1. The subsequent control levels of JP vehicles are obtained by factoring down from the first levels according to the changes in emission standards.

5. NO_x EMISSION FACTORS

US

- USEPA's updated data are used for model years 1988 and onwards. The data are calculated as the product of the g/bhp-h factors published by the EPA and g/bhp-h to g/mi conversion factors as used in PART5 and MOBILE5.
- For Medium Heavy-duty vehicles, which have the closest values of emission factors to those of combined Heavy-duty vehicles as used in AP42 and MOBILE5, emission factors for model years before 1988 are so made that they, starting from MY1987, gradually increase backwards with years in the same rates as the AP-42's combined Heavy-duty emission factors.
- Averaged emission ratios of Light Heavy-duty to Medium Heavy-duty, Heavy Heavy-duty to Medium Heavy-duty, and Buses to Medium Heavy-duty are calculated from the updated data.
- Multiplying those ratios to Medium Heavy-duty emission factors, we worked out emission factors for Light Heavy, Heavy Heavy and Buses correspondingly.

EU

- In general following the approach of PM.
- For diesel cars, there was a pre-EURO emission standard - ECE15/04, which was tested on 4ECE cycles (with out the Extra Urban Cycle) as combined HC+NO_x and expressed in g/test, having different limits for a range of vehicle masses. We chose the limit for mid-range, converted to g/km using the cycle length, under the assumption of HC/NO_x split of 0.3/0.7. Assume 90% of the limit as the emission level for cars under the standard.
- Assuming Guidebook's pre-EURO ("conventional") level is for the last year of ECE15/04, a linear decrease in emission factors was made in the coverage of the standard for diesel cars.

JP

- In general following the approach of PM.
- For light-duty commercials, Japan has its first emission standard in place at 1988 (earlier than EU), which is comparable to US88 stds in terms of limits. Considering Japan's test cycle is less stringent than FTP for NO_x (lower maximum speed & less accelerations), US pre88 level is assumed for JP 1988.

6. HC EMISSION FACTORS

US

- In general following the approach of NO_x.
- Assume emission factors of Medium-Heavy is about the same as the combined Heavy duty of AP42.

EU

- In general following the approach of NO_x.

JP

- In general following the approach of NO_x.
- As Japan's HC standards are much looser than EUs for heavy-duty vehicles, it seems inappropriate to draw parallels between Japan and EU. It is at this stage rather arbitrarily assume 2 times of EUs.

7. CO EMISSION FACTORS

US

- In general following the approach of NO_x.

EU

- In general following the approach of NO_x.

JP

- In general following the approach of NO_x.

8. IMPACT OF DIESEL SULFUR CONTENT

Under Measures for a Better Environment (MBE), a phased reduction in diesel sulfur content is proposed. The general schedule is as follows (Table 3).

Table 3: MBE Time Schedule

Year	Diesel sulfur levels	New diesel emission standards
2000	Voluntary 500ppm	
2002	Compulsory 500ppm	
2003		EURO3 for Light Heavy duty and EURO3 or US98 for Medium to Heavy Heavy duty
2004	Different pricing for 50ppm	
2006/7	Compulsory 50ppm	EURO4 or US04

Diesel sulfur content impacts on emissions in many ways:

- Particulate sulfates plus bound water account for a small but remarkable fraction in total engine-out PM emissions (depends on engine operation conditions and engine technologies);
- Sulfates interact with gaseous HCs in the exhaust to form soluble organic particulate matters;
- Sulfur (SO₂, SO₃) forms sulfates in oxidation catalysts (extensively implemented in light-duty diesels) to offset TPM reduction achieved by the catalysts;
- Lean NO_x catalyst/trap system (future technologies) are impaired by sulfur compounds;
- In the case of EGR (currently on light-duty, will be used on heavy-duty to meet future stds) sulfate causing engine corrosive wear reducing engine durability.

Obviously, diesel sulfur content has a relatively small impact on engine-out PM and no significant, direct impact on NO_x, CO and HC. However, low sulfur fuel allows the use of more active after-treatment to meet more stringent emission standards.

Given very limited data available and perceived technology application, only two aspects related to particulate emissions are taken into account in this project:

- sulfate fraction of diesel particulate emissions; and
- sulfur impact on oxidation catalysts.

Sulfate Emission Factors

Parameters used in calculation are listed in Table 4. Table 5 provides calculated sulfate emission factors. For heavy duty vehicles, unit conversion factors adopted from US are applied to convert mass emission factors from g/bhp-h to g/km.

Table 4: Parameters for Sulfate Emission Estimation

	Heavy duty		Light duty	
Sulfur content	As specified	(ppm)	As specified	(ppm)
Fuel sulfur to sulfate conversion rate	3%		3%	
Fuel consumption rate	0.18252	(kg/bhp-hr)	0.1105	kg/km
Molecular weight of sulfate as H ₂ SO ₄ +5.3(H ₂ O)	193.4		193.4	
Molecular weight of Sulfur	32		32	

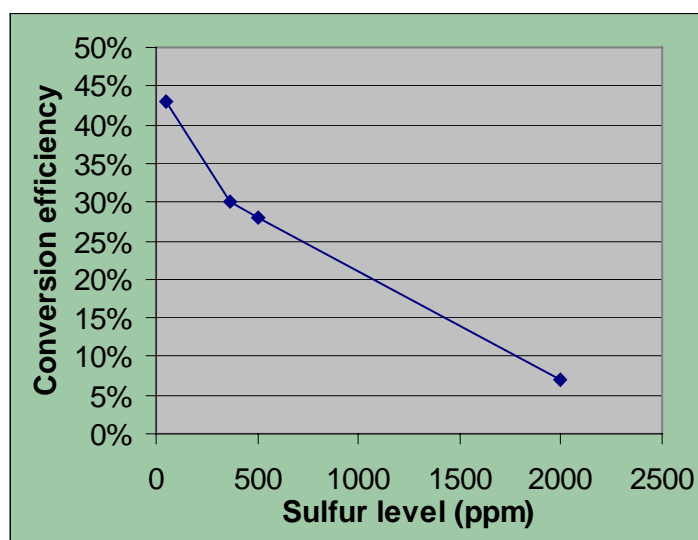
Table 5: Sulfate Emission Factors (g/km)

Sulfur level (ppm)		2500	2000	1500	500	350	50
Heavy duty	Light	0.068901	0.055121	0.041341	0.01378	0.009646	0.001378
	Medium	0.115801	0.092641	0.069481	0.02316	0.016212	0.002316
	Heavy	0.16089	0.128712	0.096534	0.032178	0.022525	0.003218
	Bus	0.136375	0.1091	0.081825	0.027275	0.019092	0.002727
Light duty		0.050088	0.04007	0.03005	0.010018	0.007012	0.001002

The adjustment accounting for sulfate emissions is treated as an additional item, which equals the sulfate emission factor under an applied sulfur level less the sulfate emission factor under the original sulfur level when the relevant PM emission factor was compiled. This adjustment is applied to all types of vehicles in a way such that once a new sulfur level is in place vehicles of all model years at and before the date are affected.

Sulfur Impact on Oxidation Catalysts

PM emission conversion efficiencies of oxidation catalysts under different diesel sulfur levels are illustrated in the following graph.

Figure 1: PM Emission Conversion Efficiency of Oxidation Catalysts

The adjustment accounting for O.C. impact is treated as a multiplication factor to the original emission factors, which equals the ratio of the passing rate (i.e. 1-conversion rate) under an applied sulfur level to the passing rate under original sulfur level when the relevant PM emission factor was compiled. This adjustment is applied only to those vehicles equipped with oxidation catalysts (namely some late models of light duty, light heavy duty and buses).

APPENDIX E: NATIONAL DEMAND FORECASTS

Population Projections

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia		16.532	17.384	18.173	18.311	18.532	18.732	18.932	19.111	19.297	19.48	19.661	19.839	20.015	20.189	20.36	20.528	20.693	20.856	21.017	21.176	21.332	21.487	21.64
NSW		5.707	5.928	6.155	6.204	6.274	6.334	6.389	6.442	6.494	6.546	6.596	6.645	6.694	6.742	6.789	6.834	6.879	6.923	6.967	7.009	7.051	7.092	7.132
VIC		4.262	4.435	4.521	4.561	4.605	4.648	4.686	4.718	4.749	4.779	4.809	4.837	4.865	4.892	4.919	4.944	4.969	4.992	5.015	5.037	5.086	5.079	5.1
QLD		2.739	2.995	3.316	3.339	3.401	3.458	3.515	3.578	3.64	3.702	3.763	3.824	3.886	3.947	4.007	4.067	4.128	4.188	4.247	4.307	4.365	4.425	4.484
WA		1.535	1.647	1.747	1.766	1.798	1.829	1.858	1.887	1.915	1.943	1.972	2.001	2.029	2.058	2.086	2.115	2.143	2.171	2.199	2.227	2.255	2.282	2.311
SA		1.404	1.452	1.476	1.474	1.48	1.485	1.49	1.496	1.502	1.507	1.511	1.516	1.52	1.523	1.527	1.53	1.533	1.535	1.537	1.539	1.541	1.543	1.544
TAS		0.451	0.468	0.473	0.474	0.474	0.472	0.471	0.471	0.471	0.47	0.469	0.468	0.467	0.466	0.465	0.464	0.462	0.461	0.459	0.458	0.457	0.454	0.452
NT		0.159	0.167	0.177	0.182	0.187	0.192	0.197	0.201	0.205	0.209	0.213	0.217	0.221	0.225	0.229	0.233	0.237	0.241	0.245	0.25	0.254	0.258	0.263
ACT		0.272	0.291	0.305	0.308	0.31	0.312	0.314	0.316	0.319	0.322	0.325	0.327	0.33	0.332	0.335	0.337	0.339	0.342	0.344	0.346	0.348	0.35	0.352

Total Road Freight Projections

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- GDP (million 89/90 dollars)	305507	342964	366685	418830	433892	445922	460192	474918	490115	505799	521984	538688	555926	573715	592074	611021	630573	650752	671576	693066	715244	738132	761752	786128
- long haul road freight rate (current \$/tonne)	102.52	123.80	148.54	160.9	163.5	164.9	167.3																	
- CPI	67.67	86.04	105.30	113.9	118.7	120.3	120.3																	
- long haul road freight rate (1990 \$/tonne)	151.51	143.89	141.06	141.26	137.74	137.07	139.07	138.10	137.13	135.21	133.32	131.45	129.61	127.79	126.90	126.01	125.13	124.25	123.38	122.52	121.66	120.81	119.97	119.13
- total Australian road freight (billion t-km)	71.39	84.62	92.50	114.37	120.82	126.03	132.75	139.33	146.24	153.31	160.72	168.49	176.64	185.18	194.35	203.99	214.10	224.72	235.86	247.55	259.82	272.70	286.22	300.41
- BTCE road freight projections (billion t-km)	74.31	85.54	88.21	104.01	108.19	112.61	117.00	121.81	126.80	132.01	137.40	143.00	148.91	155.01	161.39	168.00	174.90	182.01	189.60	197.30	205.29	213.69	222.60	231.60

Light Commercial Vehicle Freight Carried

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- travel (billion veh-km)	20.12	21.98	22.81	27.72	28.78	29.89	31.04	32.23	33.47	34.75	36.09	37.47	38.91	40.41	41.96	43.57	45.24	46.98	48.78	50.66	52.60	54.62	56.72	58.90
- LCV Payload (tonnes)	0.16	0.20	0.21	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
- LCV billion tonne - km (vehicle km* payload)	3.52	4.68	4.75	4.79	4.98	5.17	5.37	5.58	5.79	6.01	6.24	6.48	6.73	6.99	7.26	7.54	7.83	8.13	8.44	8.76	9.10	9.45	9.81	10.19

Rigid Truck/ Articulated Truck Freight Distribution

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- LCV (from C above)	0.047	0.055	0.054	0.040	0.041	0.041	0.040	0.040	0.040	0.039	0.039	0.038	0.038	0.038	0.037	0.037	0.037	0.036	0.036	0.035	0.035	0.035	0.034	0.034
- Rigid Trucks	0.244	0.247	0.233	0.210	0.204	0.199	0.195	0.190	0.185	0.181	0.176	0.172	0.167	0.162	0.158	0.153	0.148	0.144	0.139	0.135	0.130	0.125	0.121	0.116
- Artic. Trucks	0.709	0.698	0.713	0.750	0.755	0.760	0.765	0.770	0.775	0.780	0.785	0.790	0.795	0.800	0.805	0.810	0.815	0.820	0.825	0.830	0.835	0.840	0.845	0.850

Rigid Truck/ Articulated Truck Freight Distribution (billion t-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- LCV (from C above)	3.52	4.68	4.75	4.79	4.98	5.17	5.37	5.58	5.79	6.01	6.24	6.48	6.73	6.99	7.26	7.54	7.83	8.13	8.44	8.76	9.10	9.45	9.81	10.19
- Rigid Trucks	18.12	21.13	20.55	24.17	24.62	25.08	25.83	26.47	27.11	27.72	28.31	28.90	29.48	30.04	30.64	31.22	31.78	32.32	32.84	33.32	33.77	34.18	34.55	34.87
- Artic. Trucks	52.67	59.73	62.91	85.42	91.22	95.78	101.56	107.29	113.34	119.58	126.17	133.11	140.43	148.14	156.46	165.23	174.49	184.27	194.58	205.47	216.95	229.07	241.86	255.35

Payloads

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Rigid Trucks	2.97	3.29	3.36	3.73	3.80	3.88	3.96	4.04	4.12	4.20	4.28	4.37	4.46	4.55	4.64	4.73	4.83	4.92	5.02	5.12	5.22	5.33	5.43	5.54
- Articulated Trucks	14.68	15.57	15.89	17.55	17.90	18.26	18.62	19.00	19.38	19.76	20.16	20.56	20.97	21.39	21.82	22.26	22.70	23.16	23.62	24.09	24.57	25.07	25.57	26.08

Vehicle – km (billion)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars (see J below)	106.6	118.4	127.6	142.9	141.8	144.2	145.8	148.1	150.2	152.3	154.3	156.3	158.2	160.1	161.9	163.7	165.4	167.1	168.7	170.3	171.9	173.4	174.9	176.3
- LCV (from C above)	20.1	22.0	22.8	27.7	28.8	29.9	31.0	32.2	33.5	34.8	36.1	37.5	38.9	40.4	42.0	43.6	45.2	47.0	48.8	50.7	52.6	54.6	56.7	58.9
- Rigid Trucks (freight / payload)	7.627	7.839	6.114	6.480	6.47	6.46	6.52	6.56	6.58	6.60	6.61	6.61	6.61	6.61	6.61	6.60	6.59	6.57	6.54	6.51	6.47	6.42	6.36	6.29
- Articulated Trucks (freight carried/ payload)	3.588	3.836	3.959	4.867	5.10	5.25	5.45	5.65	5.85	6.05	6.26	6.47	6.70	6.92	7.17	7.42	7.69	7.96	8.24	8.53	8.83	9.14	9.46	9.79
- Buses	1.098	1.432	1.401	1.420	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
- Other Trucks	0.242	0.261	0.200	0.246	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

Average Annual Distance Travelled (thousand km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars	15.83	16.53	16.23	16.56	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
- LCV	17.64	18.57	15.69	18.15	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20	18.20
- Rigid Trucks	14.03	13.60	18.35	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20	19.20
- Articulated Trucks	71.45	78.51	76.58	83.45	85.05	86.65	88.25	89.85	91.45	93.05	94.65	96.25	97.85	99.45	100.45	101.45	102.45	103.45	104.45	105.45	106.45	107.45	108.45	109.45
- Buses	13.71	15.37	33.14	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22	27.22

Vehicle Fleet (thousands)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars	6734	7159	7861	8629	8862	9012	9114	9256	9386	9517	9643	9767	9887	10004	10118	10229	10337	10441	10544	10644	10741	10836	10929	11021
(cars/person*population)																								
- LCV (vehicle-km/annual distance)	1141	1184	1454	1527	1583	1642	1705	1771	1839	1909	1983	2059	2138	2220	2305	2394	2486	2581	2680	2783	2890	3001	3116	3236
- Rigid Trucks (" ")	543.7	576.3	333.2	337.42	336.0	336.56	339.83	341.47	342.92	343.65	344.16	344.42	344.43	344.16	344.10	343.74	343.06	342.04	340.67	338.92	336.76	334.19	331.18	327.69
- Articulated Trucks (" ")	50.22	48.86	51.7	58.32	55.5	60.54	61.79	62.85	63.96	65.02	66.12	67.25	68.42	69.63	71.38	73.17	75.02	76.92	78.87	80.87	82.93	85.05	87.22	89.46
- Buses (" ")	80.09	93.16	42.28	52.17	58.2	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17	52.17
- Cars/person (BTCE method)	432.09	449.31	463.43	478.10	481.13	483.93	486.52	488.92	491.13	493.16	495.04	496.77	498.36	499.83	501.17	502.41	503.55	504.59	505.55	506.43	507.23	507.97	508.65	509.27

Car Travel

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Annual Car Travel ('000 km)	15.826	16.532	16.233	16.564	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
- Car Travel (billion vehicle-km)	106.57	118.35	127.60	142.93	141.80	144.19	145.82	148.10	150.17	152.27	154.29	156.27	158.19	160.06	161.89	163.67	165.39	167.06	168.70	170.30	171.86	173.38	174.87	176.33

Diesel Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars (% diesel car travel in L * total car travel in J)	1.669	2.057	3.284	4.228	4.41	4.70	4.97	5.27	5.57	5.87	6.18	6.50	6.82	7.14	7.46	7.79	8.12	8.45	8.79	9.12	9.47	9.81	10.16	10.51
- LCV (% diesel travel in L * total travel in G)	2.942	4.175	5.105	6.868	7.42	8.00	8.62	9.27	9.97	10.70	11.47	12.28	13.14	14.05	15.01	16.02	17.09	18.22	19.40	20.66	21.97	23.36	24.83	26.37
- Rigid Trucks (" ")	4.593	5.317	5.179	5.865	5.92	5.98	6.10	6.20	6.29	6.37	6.44	6.51	6.58	6.61	6.61	6.60	6.59	6.57	6.54	6.51	6.47	6.42	6.36	6.29
- Articulated Trucks (" ")	3.560	3.809	3.944	4.861	5.09	5.25	5.45	5.65	5.85	6.05	6.26	6.47	6.70	6.92	7.17	7.42	7.69	7.96	8.24	8.53	8.83	9.14	9.46	9.79
- Buses (" ")	0.703	1.181	1.243	1.266	1.27	1.27	1.27	1.27	1.27	1.27	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.29	1.29	1.29	1.29	1.29	1.29	1.29
- Other Trucks (" ")	0.241	0.261	0.201	0.245	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25

% Diesel to Total Travel

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars	1.57	1.74	2.57	2.96	3.1	3.3	3.4	3.6	3.7	3.9	4.0	4.2	4.3	4.5	4.6	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8	6.0
- LCV	14.62	18.99	22.38	24.78	25.8	26.8	27.8	28.8	29.8	30.8	31.8	32.8	33.8	34.8	35.8	36.8	37.8	38.8	39.8	40.8	41.8	42.8	43.8	44.8
- Rigid Trucks	60.22	67.83	84.71	90.51	91.5	92.5	93.5	94.5	95.5	96.5	97.5	98.5	99.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
- Articulated Trucks	99.22	99.30	99.62	99.88	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
- Buses	64.03	82.47	88.72	89.15	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2
- Other Trucks	99.59	100.00	100.50	99.59	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APPENDIX F: STATE AND METROPOLITAN TRAVEL DEMAND FORECASTS

Car Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
- Cars per thousand people	432.09	449.31	463.43	478.10	481.13	483.93	486.52	488.92	491.13	493.16	495.04	496.77	498.36	499.83	501.17	502.41	503.55	504.59	505.55	506.43	507.23	507.97	508.65	509.27
- Annual Car Travel (thousand km)	15.83	16.53	16.23	16.56	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
Australia	106.57	118.35	127.60	142.93	141.80	144.19	145.82	148.10	150.17	152.27	154.29	156.27	158.19	160.06	161.89	163.67	165.39	167.06	168.70	170.30	171.86	173.38	174.87	176.33
NSW	34.66	39.19	40.08	42.25	42.55	42.83	43.09	43.34	43.57	43.78	43.97	44.16	44.33	44.48	44.63	44.76	44.89	45.00	45.11	45.21	45.30	45.38	45.46	45.53
VIC	30.58	34.07	35.45	37.94	38.53	39.08	39.60	40.09	40.54	40.96	41.36	41.73	42.07	42.38	42.68	42.95	43.20	43.44	43.65	43.85	44.03	44.20	44.36	44.51
QLD	16.28	18.13	21.25	28.57	28.96	29.34	29.69	30.03	30.35	30.65	30.94	31.21	31.47	31.71	31.93	32.15	32.35	32.53	32.71	32.87	33.03	33.17	33.30	33.43
WA	10.30	11.28	13.15	14.85	15.00	15.15	15.29	15.42	15.55	15.67	15.78	15.89	15.99	16.08	16.17	16.25	16.33	16.40	16.47	16.54	16.60	16.65	16.70	16.75
SA	9.45	10.15	11.15	11.92	11.98	12.05	12.11	12.16	12.21	12.26	12.30	12.35	12.38	12.42	12.45	12.48	12.51	12.54	12.56	12.59	12.61	12.63	12.64	12.66
TAS	2.89	3.05	3.09	3.57	3.59	3.61	3.62	3.63	3.65	3.66	3.67	3.68	3.69	3.70	3.71	3.71	3.72	3.73	3.73	3.74	3.74	3.74	3.75	3.75
NT	0.71	0.59	0.92	0.93	0.93	0.94	0.94	0.94	0.94	0.94	0.94	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.96	0.96	0.96	0.96
ACT	1.69	1.89	2.53	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91	2.91
Australia - Sum of above State figures	106.57	118.35	127.60	142.93	144.45	145.89	147.24	148.51	149.71	150.83	151.88	152.86	153.78	154.63	155.43	156.17	156.86	157.50	158.10	158.65	159.16	159.64	160.08	160.49

Metropolitan Car Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	60.49	70.13	75.01	81.51	81.50	82.73	84.11	85.45	87.25	88.02	89.26	90.44	91.63	92.76	93.95	94.92	95.95	96.95	97.92	98.88	99.83	100.79	101.75	102.67
NSW	18.90	22.61	23.25	25.79	25.77	26.14	26.55	26.95	27.35	27.72	28.09	28.45	28.80	29.13	29.55	29.77	30.07	30.37	30.66	30.93	31.21	31.49	31.77	32.05
VIC	18.49	21.21	21.72	23.47	23.29	23.56	23.88	24.20	25.00	24.78	25.06	25.33	25.58	25.82	26.05	26.27	26.48	26.68	26.86	27.05	27.24	27.43	27.62	27.81
QLD	6.97	8.21	9.66	10.61	10.79	11.06	11.33	11.59	11.85	12.11	12.36	12.62	12.86	13.11	13.34	13.58	13.81	14.04	14.26	14.48	14.70	14.93	15.15	15.37
WA	7.00	8.19	9.19	9.75	9.85	10.05	10.26	10.47	10.68	10.89	11.09	11.29	11.49	11.69	11.88	12.07	12.26	12.45	12.63	12.81	12.99	13.17	13.36	13.54
SA	6.37	6.93	7.64	7.74	7.87	7.94	8.03	8.11	8.18	8.26	8.32	8.37	8.45	8.50	8.56	8.60	8.65	8.69	8.73	8.77	8.81	8.84	8.88	8.92
TAS	1.10	1.28	1.13	1.41	1.30	1.31	1.32	1.33	1.35	1.36	1.37	1.38	1.39	1.40	1.40	1.41	1.42	1.42	1.43	1.43	1.44	1.44	1.44	1.45
NT	0.38	0.31	0.47	0.48	0.52	0.52	0.53	0.54	0.55	0.56	0.57	0.57	0.58	0.59	0.59	0.60	0.60	0.61	0.61	0.62	0.62	0.63	0.63	0.64
ACT	1.28	1.42	1.95	2.26	2.12	2.16	2.21	2.25	2.30	2.35	2.39	2.44	2.49	2.53	2.57	2.62	2.66	2.70	2.74	2.78	2.82	2.86	2.90	2.90

Non-metropolitan Car Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	46.086	48.217	52.586	61.423	62.951	63.153	63.134	63.064	62.456	62.805	62.622	62.421	62.150	61.871	61.480	61.250	60.912	60.550	60.180	59.775	59.330	58.849	58.331	57.821
NSW	15.758	16.581	16.829	16.462	16.778	16.691	16.542	16.384	16.221	16.054	15.882	15.708	15.530	15.351	15.081	14.993	14.813	14.633	14.453	14.273	14.085	13.891	13.690	13.483
VIC	12.090	12.863	13.729	14.473	15.240	15.520	15.716	15.891	15.545	16.179	16.298	16.400	16.488	16.563	16.626	16.680	16.725	16.759	16.796	16.804	16.797	16.777	16.743	16.696
QLD	9.308	9.924	11.585	17.967	18.169	18.276	18.364	18.436	18.496	18.541	18.575	18.595	18.605	18.603	18.590	18.568	18.538	18.497	18.447	18.390	18.322	18.244	18.156	18.059
WA	3.304	3.092	3.957	5.094	5.154	5.103	5.029	4.951	4.870	4.782	4.692	4.596	4.498	4.396	4.290	4.183	4.073	3.960	3.845	3.726	3.604	3.477	3.347	3.213
SA	3.080	3.217	3.501	4.178	4.114	4.107	4.081	4.054	4.029	4.005	3.983	3.980	3.939	3.918	3.899	3.880	3.864	3.847	3.830	3.816	3.799	3.781	3.762	3.741
TAS	1.797	1.771	1.961	2.159	2.295	2.300	2.301	2.301	2.301	2.301	2.302	2.302	2.302	2.302	2.303	2.303	2.302	2.303	2.303	2.304	2.305	2.305	2.305	2.304
NT	0.329	0.279	0.452	0.449	0.419	0.413	0.406	0.398	0.392	0.386	0.379	0.373	0.368	0.363	0.358	0.353	0.349	0.344	0.340	0.336	0.331	0.327	0.323	0.318
ACT	0.411	0.470	0.571	0.642	0.783	0.744	0.696	0.649	0.603	0.556	0.511	0.466	0.421	0.376	0.333	0.290	0.248	0.207	0.166	0.127	0.087	0.047	0.007	0.008

State Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	1.669	2.057	3.284	4.228	4.407	4.698	4.970	5.269	5.569	5.875	6.184	6.498	6.815	7.136	7.460	7.787	8.117	8.450	8.786	9.125	9.466	9.810	10.157	10.506
NSW	0.441	0.603	0.884	0.386	0.453	0.520	0.588	0.656	0.725	0.794	0.863	0.933	1.003	1.074	1.144	1.215	1.285	1.356	1.427	1.498	1.569	1.640	1.711	1.782
VIC	0.353	0.448	0.662	1.795	1.881	1.966	2.052	2.137	2.222	2.307	2.391	2.475	2.558	2.641	2.723	2.805	2.886	2.967	3.047	3.127	3.206	3.285	3.363	3.441
QLD	0.364	0.433	0.668	1.010	1.067	1.125	1.183	1.242	1.300	1.359	1.418	1.478	1.537	1.596	1.656	1.715	1.774	1.833	1.892	1.951	2.010	2.068	2.126	2.184
WA	0.280	0.295	0.705	0.614	0.643	0.672	0.701	0.730	0.760	0.789	0.818	0.848	0.877	0.906	0.936	0.965	0.994	1.023	1.052	1.081	1.110	1.138	1.167	1.195
SA	0.108	0.192	0.181	0.280	0.300	0.319	0.339	0.359	0.379	0.398	0.418	0.438	0.458	0.478	0.498	0.518	0.538	0.558	0.578	0.598	0.618	0.638	0.657	0.677
TAS	0.037	0.017	0.042	0.070	0.076	0.081	0.087	0.093	0.099	0.105	0.110	0.116	0.122	0.128	0.134	0.140	0.145	0.151	0.157	0.163	0.169	0.174	0.180	0.186
NT	0.058	0.051	0.114	0.072	0.074	0.075	0.077	0.078	0.080	0.081	0.083	0.084	0.086	0.087	0.089	0.091	0.092	0.094	0.095	0.097	0.098	0.100	0.101	0.103
ACT	0.028	0.019	0.027	0.027	0.031	0.036	0.040	0.044	0.049	0.053	0.058	0.062	0.066	0.071	0.075	0.079	0.084	0.088	0.093	0.097	0.101	0.106	0.110	0.114

Metropolitan Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.548	1.216	0.875	1.912	2.034	2.189	2.351	2.517	2.701	2.857	3.031	3.207	3.386	3.567	3.754	3.935	4.122	4.310	4.500	4.692	4.888	5.086	5.287	5.488
NSW	0.193	0.348	0.126	0.154	0.193	0.235	0.278	0.323	0.368	0.415	0.463	0.511	0.561	0.611	0.664	0.714	0.766	0.819	0.873	0.927	0.982	1.038	1.095	1.153
VIC	0.165	0.279	0.183	1.027	1.054	1.102	1.153	1.204	1.281	1.308	1.360	1.412	1.465	1.517	1.570	1.623	1.675	1.728	1.780	1.833	1.887	1.941	1.996	2.051
QLD	0.045	0.196	0.213	0.270	0.291	0.315	0.339	0.365	0.391	0.417	0.445	0.473	0.501	0.530	0.560	0.590	0.621	0.652	0.684	0.716	0.749	0.783	0.817	0.852
WA	0.063	0.214	0.260	0.324	0.342	0.364	0.387	0.411	0.435	0.460	0.485	0.511	0.537	0.564	0.591	0.618	0.646	0.675	0.704	0.733	0.763	0.793	0.824	0.856
SA	0.032	0.131	0.048	0.102	0.116	0.128	0.142	0.155	0.169	0.183	0.197	0.211	0.225	0.240	0.254	0.268	0.283	0.297	0.312	0.326	0.341	0.355	0.370	0.385
TAS	0.018	0.007	0.002	0.022	0.022	0.024	0.026	0.029	0.031	0.033	0.036	0.038	0.040	0.043	0.045	0.047	0.050	0.052	0.054	0.057	0.059	0.061	0.064	0.066
NT	0.016	0.027	0.025	0.012	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.026	0.027	0.028	0.029	0.030	0.031	0.033	0.034	0.035
ACT	0.016	0.014	0.019	0.019	0.021	0.025	0.028	0.032	0.037	0.041	0.045	0.050	0.054	0.059	0.064	0.069	0.074	0.079	0.085	0.090	0.096	0.101	0.107	0.111

Non-metropolitan Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	1.121	0.841	2.409	2.316	2.373	2.509	2.618	2.752	2.867	3.017	3.153	3.291	3.429	3.568	3.706	3.852	3.996	4.140	4.286	4.432	4.579	4.724	4.870	5.018
NSW	0.248	0.255	0.758	0.232	0.260	0.285	0.310	0.333	0.356	0.379	0.401	0.422	0.443	0.463	0.480	0.501	0.519	0.537	0.554	0.571	0.587	0.602	0.616	0.629
VIC	0.188	0.169	0.479	0.768	0.827	0.864	0.899	0.933	0.941	0.999	1.031	1.063	1.093	1.124	1.153	1.183	1.211	1.239	1.268	1.294	1.320	1.344	1.367	1.389
QLD	0.319	0.237	0.455	0.740	0.776	0.810	0.844	0.877	0.910	0.942	0.974	1.005	1.036	1.066	1.096	1.125	1.153	1.181	1.208	1.235	1.260	1.285	1.309	1.332
WA	0.217	0.081	0.445	0.290	0.301	0.308	0.314	0.320	0.325	0.329	0.334	0.337	0.340	0.343	0.345	0.346	0.348	0.348	0.348	0.348	0.347	0.345	0.342	0.339
SA	0.076	0.061	0.133	0.178	0.184	0.191	0.197	0.203	0.209	0.215	0.221	0.228	0.233	0.239	0.244	0.250	0.255	0.261	0.266	0.272	0.277	0.282	0.287	0.292
TAS	0.019	0.010	0.040	0.048	0.054	0.057	0.061	0.064	0.068	0.071	0.075	0.078	0.082	0.085	0.089	0.092	0.096	0.099	0.103	0.106	0.110	0.113	0.117	0.120
NT	0.042	0.024	0.089	0.060	0.060	0.061	0.061	0.062	0.062	0.062	0.063	0.063	0.064	0.064	0.065	0.065	0.065	0.066	0.066	0.066	0.067	0.067	0.067	0.068
ACT	0.012	0.005	0.008	0.008	0.010	0.011	0.012	0.012	0.012	0.012	0.012	0.012	0.012	0.011	0.011	0.010	0.010	0.009	0.008	0.007	0.006	0.004	0.003	0.003

Percentage State Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	1.57	1.74	2.57	2.96	3.11	3.26	3.41	3.56	3.71	3.86	4.01	4.16	4.31	4.46	4.61	4.76	4.91	5.06	5.21	5.36	5.51	5.66	5.81	5.96
NSW	1.27	1.54	2.21	0.91	1.06	1.21	1.36	1.51	1.66	1.81	1.96	2.11	2.26	2.41	2.56	2.71	2.86	3.01	3.16	3.31	3.46	3.61	3.76	3.91
VIC	1.15	1.32	1.87	4.73	4.88	5.03	5.18	5.33	5.48	5.63	5.78	5.93	6.08	6.23	6.38	6.53	6.68	6.83	6.98	7.13	7.28	7.43	7.58	7.73
QLD	2.24	2.39	3.14	3.53	3.68	3.83	3.98	4.13	4.28	4.43	4.58	4.73	4.88	5.03	5.18	5.33	5.48	5.63	5.78	5.93	6.08	6.23	6.38	6.53
WA	2.72	2.62	5.36	4.14	4.29	4.44	4.59	4.74	4.89	5.04	5.19	5.34	5.49	5.64	5.79	5.94	6.09	6.24	6.39	6.54	6.69	6.84	6.99	7.14
SA	1.14	1.89	1.62	2.35	2.50	2.65	2.80	2.95	3.10	3.25	3.40	3.55	3.70	3.85	4.00	4.15	4.30	4.45	4.60	4.75	4.90	5.05	5.20	5.35
TAS	1.28	0.56	1.36	1.96	2.11	2.26	2.41	2.56	2.71	2.86	3.01	3.16	3.31	3.46	3.61	3.76	3.91	4.06	4.21	4.36	4.51	4.66	4.81	4.96
NT	8.20	8.67	12.43	7.72	7.87	8.02	8.17	8.32	8.47	8.62	8.77	8.92	9.07	9.22	9.37	9.52	9.67	9.82	9.97	10.12	10.27	10.42	10.57	10.72
ACT	1.65	1.00	1.07	0.93	1.08	1.23	1.38	1.53	1.68	1.83	1.98	2.13	2.28	2.43	2.58	2.73	2.88	3.03	3.18	3.33	3.48	3.63	3.78	3.93

Percentage Metropolitan Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.91	1.73	1.17	2.35	2.50	2.65	2.80	2.95	3.10	3.25	3.40	3.55	3.70	3.85	4.00	4.15	4.30	4.45	4.60	4.75	4.90	5.05	5.20	5.35
NSW	1.02	1.54	0.54	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60
VIC	0.89	1.32	0.84	4.38	4.53	4.68	4.83	4.98	5.13	5.28	5.43	5.58	5.73	5.88	6.03	6.18	6.33	6.48	6.63	6.78	6.93	7.08	7.23	7.38
QLD	0.65	2.39	2.20	2.55	2.70	2.85	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55
WA	0.90	2.61	2.83	3.32	3.47	3.62	3.77	3.92	4.07	4.22	4.37	4.52	4.67	4.82	4.97	5.12	5.27	5.42	5.57	5.72	5.87	6.02	6.17	6.32
SA	0.50	1.89	0.63	1.32	1.47	1.62	1.77	1.92	2.07	2.22	2.37	2.52	2.67	2.82	2.97	3.12	3.27	3.42	3.57	3.72	3.87	4.02	4.17	4.32
TAS	1.64	0.55	0.18	1.56	1.71	1.86	2.01	2.16	2.31	2.46	2.61	2.76	2.91	3.06	3.21	3.36	3.51	3.66	3.81	3.96	4.11	4.26	4.41	4.56
NT	4.23	8.74	5.38	2.48	2.63	2.78	2.93	3.08	3.23	3.38	3.53	3.68	3.83	3.98	4.13	4.28	4.43	4.58	4.73	4.88	5.03	5.18	5.33	5.48
ACT	1.25	0.98	0.97	0.84	0.99	1.14	1.29	1.44	1.59	1.74	1.89	2.04	2.19	2.34	2.49	2.64	2.79	2.94	3.09	3.24	3.39	3.54	3.69	3.84

Percentage Non-metropolitan Travel by Diesel Powered Cars

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.43	1.74	4.58	3.77	3.77	3.97	4.15	4.36	4.59	4.80	5.04	5.27	5.52	5.77	6.03	6.29	6.56	6.84	7.12	7.41	7.72	8.03	8.35	8.68
NSW	1.57	1.54	4.50	1.41	1.55	1.71	1.87	2.03	2.20	2.36	2.52	2.69	2.85	3.01	3.18	3.34	3.51	3.67	3.83	4.00	4.16	4.33	4.50	4.67
VIC	1.56	1.31	3.49	5.31	5.42	5.57	5.72	5.87	6.05	6.17	6.33	6.48	6.63	6.78	6.94	7.09	7.24	7.40	7.55	7.70	7.86	8.01	8.17	8.32
QLD	3.43	2.39	3.93	4.12	4.27	4.43	4.59	4.76	4.92	5.08	5.24	5.41	5.57	5.73	5.89	6.06	6.22	6.39	6.55	6.71	6.88	7.04	7.21	7.38
WA	6.57	2.62	11.25	5.69	5.84	6.04	6.25	6.46	6.67	6.89	7.11	7.33	7.56	7.80	8.04	8.28	8.53	8.79	9.06	9.33	9.62	9.92	10.23	10.56
SA	2.47	1.90	3.80	4.26	4.47	4.64	4.83	5.01	5.19	5.38	5.56	5.72	5.91	6.09	6.26	6.44	6.61	6.78	6.95	7.12	7.29	7.46	7.64	7.81
TAS	1.06	0.56	2.04	2.22	2.34	2.49	2.64	2.79	2.94	3.10	3.25	3.40	3.55	3.70	3.85	4.01	4.16	4.31	4.46	4.61	4.76	4.91	5.06	5.21
NT	12.77	8.60	19.69	13.36	14.32	14.66	15.05	15.44	15.82	16.20	16.59	16.96	17.33	17.68	18.03	18.39	18.72	19.09	19.43	19.78	20.13	20.49	20.86	21.23
ACT	2.92	1.06	1.40	1.25	1.32	1.49	1.66	1.84	2.02	2.21	2.40	2.60	2.81	3.03	3.27	3.54	3.84	4.20	4.66	5.30	6.39	9.07	39.20	38.37

LCV Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	20.120	21.980	22.810	27.720	28.784	29.890	31.038	32.229	33.467	34.752	36.087	37.472	38.911	40.405	41.957	43.568	45.241	46.978	48.782	50.656	52.601	54.621	56.718	58.896
NSW	6.216	6.533	6.209	7.821	8.066	8.319	8.580	8.849	9.126	9.412	9.707	10.012	10.326	10.649	10.983	11.328	11.683	12.049	12.427	12.816	13.218	13.632	14.060	14.501
VIC	4.628	5.463	5.771	6.514	6.718	6.929	7.146	7.370	7.601	7.839	8.085	8.339	8.600	8.870	9.148	9.435	9.730	10.035	10.350	10.674	11.009	11.354	11.710	12.077
QLD	4.241	4.498	4.861	6.479	6.797	7.130	7.479	7.846	8.231	8.634	9.057	9.501	9.967	10.456	10.968	11.506	12.070	12.661	13.282	13.933	14.616	15.333	16.084	16.873
WA	2.261	2.665	2.827	3.312	3.474	3.645	3.823	4.011	4.207	4.414	4.630	4.857	5.095	5.345	5.607	5.882	6.170	6.472	6.790	7.122	7.472	7.838	8.222	8.625
SA	1.592	1.687	1.693	2.018	2.081	2.147	2.214	2.283	2.355	2.429	2.505	2.583	2.664	2.748	2.834	2.923	3.014	3.109	3.206	3.307	3.411	3.517	3.628	3.741
TAS	0.654	0.576	0.690	0.839	0.865	0.892	0.920	0.949	0.979	1.010	1.041	1.074	1.108	1.142	1.178	1.215	1.253	1.293	1.333	1.375	1.418	1.462	1.508	1.556
NT	0.323	0.287	0.421	0.387	0.406	0.426	0.447	0.469	0.492	0.516	0.541	0.568	0.595	0.625	0.655	0.687	0.721	0.756	0.793	0.832	0.873	0.916	0.961	1.008
ACT	0.206	0.272	0.341	0.347	0.358	0.369	0.381	0.393	0.405	0.418	0.431	0.444	0.458	0.472	0.487	0.503	0.518	0.535	0.551	0.569	0.586	0.605	0.624	0.643

Metropolitan LCV Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	8.501	10.024	10.010	12.454	12.844	13.247	13.662	14.091	14.532	14.988	15.458	15.943	16.442	16.958	17.489	18.038	18.603	19.186	19.788	20.408	21.048	21.708	22.388	23.090
NSW	2.454	2.768	2.577	3.384	3.490	3.600	3.712	3.829	3.949	4.073	4.200	4.332	4.468	4.608	4.752	4.901	5.055	5.213	5.377	5.545	5.719	5.898	6.083	6.274
VIC	2.272	3.007	3.059	3.514	3.624	3.738	3.855	3.976	4.100	4.229	4.362	4.498	4.639	4.785	4.935	5.089	5.249	5.414	5.583	5.758	5.939	6.125	6.317	6.515
QLD	1.307	1.614	1.663	2.127	2.231	2.341	2.455	2.576	2.702	2.834	2.973	3.119	3.272	3.432	3.601	3.777	3.962	4.157	4.360	4.574	4.798	5.034	5.280	5.539
WA	1.167	1.278	1.259	1.670	1.752	1.838	1.928	2.022	2.121	2.225	2.335	2.449	2.569	2.695	2.827	2.966	3.111	3.264	3.424	3.591	3.767	3.952	4.146	4.349
SA	0.738	0.813	0.812	1.029	1.061	1.095	1.129	1.164	1.201	1.238	1.277	1.317	1.359	1.401	1.445	1.490	1.537	1.585	1.635	1.686	1.739	1.794	1.850	1.908
TAS	0.284	0.188	0.186	0.276	0.285	0.294	0.303	0.312	0.322	0.332	0.343	0.353	0.364	0.376	0.388	0.400	0.412	0.425	0.439	0.452	0.466	0.481	0.496	0.512
NT	0.106	0.121	0.165	0.169	0.177	0.186	0.195	0.205	0.215	0.225	0.236	0.248	0.260	0.273	0.286	0.300	0.315	0.330	0.346	0.363	0.381	0.400	0.420	0.440
ACT	0.173	0.233	0.288	0.285	0.294	0.303	0.313	0.322	0.333	0.343	0.354	0.365	0.376	0.388	0.400	0.413	0.426	0.439	0.453	0.467	0.482	0.497	0.512	0.528

Non-metropolitan LCV Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	11.619	11.956	12.800	15.266	15.921	16.609	17.328	18.079	18.863	19.683	20.540	21.435	22.371	23.349	24.371	25.439	26.556	27.724	28.944	30.221	31.555	32.950	34.408	35.933
NSW	3.762	3.765	3.632	4.437	4.576	4.720	4.868	5.020	5.177	5.340	5.507	5.680	5.858	6.042	6.231	6.426	6.628	6.836	7.050	7.271	7.499	7.734	7.976	8.226
VIC	2.356	2.456	2.712	3.000	3.094	3.191	3.291	3.394	3.501	3.610	3.724	3.840	3.961	4.085	4.213	4.345	4.481	4.622	4.767	4.916	5.070	5.229	5.393	5.562
QLD	2.934	2.884	3.198	4.352	4.565	4.789	5.024	5.270	5.529	5.800	6.084	6.382	6.695	7.023	7.367	7.728	8.107	8.505	8.922	9.359	9.818	10.299	10.804	11.334
WA	1.094	1.387	1.568	1.642	1.722	1.807	1.896	1.988	2.086	2.188	2.295	2.408	2.526	2.650	2.780	2.916	3.059	3.209	3.366	3.531	3.704	3.886	4.076	4.276
SA	0.854	0.874	0.881	0.989	1.020	1.052	1.085	1.119	1.154	1.190	1.228	1.266	1.306	1.347	1.389	1.432	1.477	1.524	1.571	1.621	1.671	1.724	1.778	1.834
TAS	0.370	0.388	0.504	0.563	0.581	0.599	0.618	0.637	0.657	0.678	0.699	0.721	0.743	0.767	0.791	0.815	0.841	0.867	0.895	0.923	0.952	0.981	1.012	1.044
NT	0.217	0.166	0.256	0.218	0.229	0.240	0.252	0.264	0.277	0.291	0.305	0.320	0.335	0.352	0.369	0.387	0.406	0.426	0.447	0.469	0.492	0.516	0.541	0.568
ACT	0.033	0.039	0.053	0.062	0.064	0.066	0.068	0.070	0.072	0.075	0.077	0.079	0.082	0.084	0.087	0.090	0.093	0.096	0.099	0.102	0.105	0.108	0.111	0.115

State Travel by Diesel Powered LCV's(billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.945	4.175	5.105	6.868	7.420	8.003	8.621	9.274	9.965	10.695	11.467	12.282	13.143	14.052	15.011	16.023	17.090	18.217	19.404	20.656	21.975	23.365	24.829	26.372
NSW	0.954	1.211	1.339	2.093	2.239	2.393	2.553	2.722	2.899	3.084	3.277	3.480	3.693	3.915	4.147	4.391	4.645	4.911	5.190	5.480	5.784	6.102	6.434	6.781
VIC	0.476	0.733	0.810	0.983	1.081	1.184	1.293	1.407	1.527	1.653	1.786	1.925	2.072	2.225	2.387	2.556	2.733	2.919	3.114	3.319	3.533	3.757	3.992	4.238
QLD	0.741	1.168	1.400	1.990	2.156	2.332	2.522	2.724	2.939	3.170	3.416	3.678	3.958	4.257	4.575	4.915	5.276	5.661	6.072	6.509	6.974	7.469	7.996	8.557
WA	0.346	0.565	0.882	0.886	0.964	1.048	1.137	1.233	1.336	1.446	1.563	1.688	1.822	1.964	2.117	2.279	2.453	2.638	2.835	3.045	3.269	3.508	3.762	4.032
SA	0.192	0.289	0.331	0.463	0.498	0.535	0.574	0.615	0.658	0.703	0.750	0.799	0.851	0.905	0.962	1.021	1.083	1.149	1.217	1.288	1.362	1.440	1.522	1.607
TAS	0.080	0.090	0.112	0.232	0.248	0.265	0.282	0.300	0.320	0.340	0.361	0.383	0.406	0.430	0.455	0.482	0.509	0.538	0.569	0.600	0.633	0.668	0.704	0.741
NT	0.135	0.101	0.167	0.151	0.162	0.175	0.188	0.202	0.216	0.232	0.249	0.267	0.286	0.306	0.328	0.351	0.375	0.401	0.429	0.458	0.489	0.522	0.557	0.595
ACT	0.019	0.019	0.065	0.069	0.075	0.081	0.087	0.094	0.101	0.108	0.116	0.124	0.132	0.141	0.151	0.160	0.170	0.181	0.192	0.204	0.216	0.229	0.243	0.257

Metropolitan Travel by Diesel Powered LCV's(billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.803	1.834	1.481	1.919	2.108	2.306	2.515	2.735	2.966	3.209	3.464	3.732	4.013	4.309	4.619	4.944	5.285	5.642	6.017	6.410	6.821	7.252	7.704	8.176
NSW	0.247	0.513	0.269	0.370	0.417	0.466	0.517	0.572	0.629	0.690	0.753	0.820	0.891	0.965	1.042	1.124	1.210	1.300	1.394	1.494	1.598	1.707	1.821	1.941
VIC	0.185	0.404	0.306	0.456	0.507	0.560	0.616	0.675	0.737	0.803	0.871	0.944	1.020	1.099	1.183	1.271	1.364	1.460	1.562	1.669	1.780	1.897	2.020	2.148
QLD	0.158	0.419	0.493	0.505	0.552	0.603	0.657	0.715	0.777	0.843	0.914	0.990	1.071	1.158	1.251	1.350	1.456	1.569	1.689	1.818	1.955	2.101	2.257	2.423
WA	0.067	0.271	0.205	0.231	0.260	0.291	0.324	0.361	0.400	0.441	0.486	0.535	0.587	0.642	0.702	0.766	0.835	0.908	0.987	1.071	1.162	1.258	1.361	1.471
SA	0.077	0.139	0.080	0.216	0.233	0.252	0.271	0.291	0.312	0.334	0.358	0.382	0.407	0.434	0.462	0.492	0.522	0.555	0.588	0.624	0.661	0.699	0.740	0.782
TAS	0.019	0.029	0.014	0.048	0.052	0.057	0.062	0.067	0.072	0.078	0.084	0.090	0.096	0.103	0.110	0.117	0.125	0.133	0.142	0.151	0.160	0.170	0.181	0.191
NT	0.034	0.042	0.057	0.041	0.045	0.049	0.053	0.058	0.063	0.068	0.074	0.080	0.086	0.093	0.101	0.109	0.117	0.126	0.136	0.146	0.157	0.169	0.181	0.195
ACT	0.016	0.016	0.057	0.051	0.056	0.060	0.065	0.071	0.076	0.082	0.088	0.094	0.101	0.108	0.116	0.123	0.132	0.140	0.149	0.158	0.168	0.178	0.189	0.200

Non-metropolitan Travel by Diesel Powered LCV's (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.142	2.341	3.624	4.949	5.312	5.697	6.106	6.540	6.999	7.487	8.003	8.550	9.129	9.743	10.392	11.079	11.806	12.574	13.387	14.246	15.153	16.112	17.126	18.196
NSW	0.707	0.698	1.070	1.723	1.823	1.927	2.036	2.150	2.269	2.394	2.524	2.660	2.802	2.950	3.105	3.267	3.435	3.611	3.795	3.987	4.187	4.395	4.613	4.840
VIC	0.291	0.329	0.504	0.527	0.574	0.624	0.677	0.732	0.790	0.851	0.915	0.982	1.052	1.126	1.204	1.285	1.370	1.459	1.552	1.650	1.753	1.860	1.972	2.090
QLD	0.583	0.749	0.907	1.485	1.603	1.730	1.865	2.009	2.163	2.327	2.502	2.688	2.887	3.099	3.324	3.565	3.820	4.093	4.383	4.691	5.019	5.368	5.739	6.134
WA	0.279	0.294	0.677	0.655	0.704	0.757	0.813	0.873	0.936	1.004	1.076	1.153	1.235	1.322	1.415	1.513	1.618	1.729	1.848	1.974	2.107	2.250	2.401	2.561
SA	0.115	0.150	0.251	0.247	0.265	0.284	0.304	0.324	0.346	0.369	0.393	0.417	0.444	0.471	0.500	0.530	0.561	0.594	0.628	0.664	0.702	0.741	0.782	0.825
TAS	0.061	0.061	0.098	0.184	0.196	0.208	0.220	0.234	0.248	0.262	0.277	0.293	0.310	0.327	0.345	0.364	0.384	0.405	0.427	0.449	0.473	0.497	0.523	0.550
NT	0.101	0.059	0.110	0.110	0.118	0.126	0.135	0.144	0.154	0.164	0.175	0.187	0.199	0.213	0.227	0.242	0.258	0.275	0.293	0.312	0.332	0.353	0.376	0.400
ACT	0.003	0.003	0.008	0.018	0.019	0.020	0.022	0.023	0.025	0.026	0.028	0.029	0.031	0.033	0.035	0.037	0.039	0.041	0.043	0.046	0.048	0.051	0.054	0.056

Percentage State Travel by Diesel Powered LCV's

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	14.64	18.99	22.38	24.78	25.78	26.78	27.78	28.78	29.78	30.78	31.78	32.78	33.78	34.78	35.78	36.78	37.78	38.78	39.78	40.78	41.78	42.78	43.78	44.78
NSW	15.35	18.54	21.57	26.76	27.76	28.76	29.76	30.76	31.76	32.76	33.76	34.76	35.76	36.76	37.76	38.76	39.76	40.76	41.76	42.76	43.76	44.76	45.76	46.76
VIC	10.29	13.42	14.04	15.09	16.09	17.09	18.09	19.09	20.09	21.09	22.09	23.09	24.09	25.09	26.09	27.09	28.09	29.09	30.09	31.09	32.09	33.09	34.09	35.09
QLD	17.47	25.97	28.80	30.71	31.71	32.71	33.71	34.71	35.71	36.71	37.71	38.71	39.71	40.71	41.71	42.71	43.71	44.71	45.71	46.71	47.71	48.71	49.71	50.71
WA	15.30	21.20	31.20	26.75	27.75	28.75	29.75	30.75	31.75	32.75	33.75	34.75	35.75	36.75	37.75	38.75	39.75	40.75	41.75	42.75	43.75	44.75	45.75	46.75
SA	12.06	17.13	19.55	22.94	23.94	24.94	25.94	26.94	27.94	28.94	29.94	30.94	31.94	32.94	33.94	34.94	35.94	36.94	37.94	38.94	39.94	40.94	41.94	42.94
TAS	12.23	15.63	16.23	27.65	28.65	29.65	30.65	31.65	32.65	33.65	34.65	35.65	36.65	37.65	38.65	39.65	40.65	41.65	42.65	43.65	44.65	45.65	46.65	47.65
NT	41.80	35.19	39.67	39.02	40.02	41.02	42.02	43.02	44.02	45.02	46.02	47.02	48.02	49.02	50.02	51.02	52.02	53.02	54.02	55.02	56.02	57.02	58.02	59.02
ACT	9.22	6.99	19.06	19.88	20.88	21.88	22.88	23.88	24.88	25.88	26.88	27.88	28.88	29.88	30.88	31.88	32.88	33.88	34.88	35.88	36.88	37.88	38.88	39.88

Percentage Metropolitan Travel by Diesel Powered LCV's

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	9.45	18.30	14.80	15.41	16.41	17.41	18.41	19.41	20.41	21.41	22.41	23.41	24.41	25.41	26.41	27.41	28.41	29.41	30.41	31.41	32.41	33.41	34.41	35.41
NSW	10.07	18.53	10.44	10.93	11.93	12.93	13.93	14.93	15.93	16.93	17.93	18.93	19.93	20.93	21.93	22.93	23.93	24.93	25.93	26.93	27.93	28.93	29.93	30.93
VIC	8.14	13.44	10.00	12.98	13.98	14.98	15.98	16.98	17.98	18.98	19.98	20.98	21.98	22.98	23.98	24.98	25.98	26.98	27.98	28.98	29.98	30.98	31.98	32.98
QLD	12.09	25.96	29.65	23.74	24.74	25.74	26.74	27.74	28.74	29.74	30.74	31.74	32.74	33.74	34.74	35.74	36.74	37.74	38.74	39.74	40.74	41.74	42.74	43.74
WA	5.74	21.21	16.28	13.83	14.83	15.83	16.83	17.83	18.83	19.83	20.83	21.83	22.83	23.83	24.83	25.83	26.83	27.83	28.83	29.83	30.83	31.83	32.83	33.83
SA	10.43	17.10	9.85	20.99	21.99	22.99	23.99	24.99	25.99	26.99	27.99	28.99	29.99	30.99	31.99	32.99	33.99	34.99	35.99	36.99	37.99	38.99	39.99	40.99
TAS	6.69	15.43	7.53	17.39	18.39	19.39	20.39	21.39	22.39	23.39	24.39	25.39	26.39	27.39	28.39	29.39	30.39	31.39	32.39	33.39	34.39	35.39	36.39	37.39
NT	32.08	34.71	34.55	24.26	25.26	26.26	27.26	28.26	29.26	30.26	31.26	32.26	33.26	34.26	35.26	36.26	37.26	38.26	39.26	40.26	41.26	42.26	43.26	44.26
ACT	9.25	6.87	19.79	17.89	18.89	19.89	20.89	21.89	22.89	23.89	24.89	25.89	26.89	27.89	28.89	29.89	30.89	31.89	32.89	33.89	34.89	35.89	36.89	37.89

Percentage Non-metropolitan Travel by Diesel Powered LCV's

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	18.44	19.58	28.31	32.42	33.36	34.30	35.24	36.17	37.11	38.04	38.96	39.89	40.81	41.73	42.64	43.55	44.45	45.35	46.25	47.14	48.02	48.90	49.77	50.64
NSW	18.79	18.54	29.46	38.83	39.83	40.83	41.83	42.83	43.83	44.83	45.83	46.83	47.83	48.83	49.83	50.83	51.83	52.83	53.83	54.83	55.83	56.83	57.83	58.83
VIC	12.35	13.40	18.58	17.57	18.57	19.57	20.57	21.57	22.57	23.57	24.57	25.57	26.57	27.57	28.57	29.57	30.57	31.57	32.57	33.57	34.57	35.57	36.57	37.57
QLD	19.87	25.97	28.36	34.12	35.12	36.12	37.12	38.12	39.12	40.12	41.12	42.12	43.12	44.12	45.12	46.12	47.12	48.12	49.12	50.12	51.12	52.12	53.12	54.12
WA	25.50	21.20	43.18	39.89	40.89	41.89	42.89	43.89	44.89	45.89	46.89	47.89	48.89	49.89	50.89	51.89	52.89	53.89	54.89	55.89	56.89	57.89	58.89	59.89
SA	13.47	17.16	28.49	24.97	25.97	26.97	27.97	28.97	29.97	30.97	31.97	32.97	33.97	34.97	35.97	36.97	37.97	38.97	39.97	40.97	41.97	42.97	43.97	44.97
TAS	16.49	15.72	19.44	32.68	33.68	34.68	35.68	36.68	37.68	38.68	39.68	40.68	41.68	42.68	43.68	44.68	45.68	46.68	47.68	48.68	49.68	50.68	51.68	52.68
NT	46.54	35.54	42.97	50.46	51.46	52.46	53.46	54.46	55.46	56.46	57.46	58.46	59.46	60.46	61.46	62.46	63.46	64.46	65.46	66.46	67.46	68.46	69.46	70.46
ACT	9.09	7.69	15.09	29.03	30.03	31.03	32.03	33.03	34.03	35.03	36.03	37.03	38.03	39.03	40.03	41.03	42.03	43.03	44.03	45.03	46.03	47.03	48.03	49.03

Rigid/Other Truck Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	7.869	8.100	6.314	6.726	6.718	6.708	6.771	6.802	6.830	6.844	6.854	6.859	6.859	6.854	6.853	6.846	6.833	6.813	6.787	6.753	6.712	6.662	6.605	6.538
NSW	2.868	2.924	1.923	2.237	2.214	2.191	2.191	2.181	2.169	2.153	2.136	2.117	2.096	2.094	2.094	2.092	2.088	2.082	2.074	2.064	2.051	2.036	2.018	1.998
VIC	1.802	2.106	1.573	1.587	1.592	1.596	1.618	1.632	1.646	1.656	1.665	1.673	1.680	1.679	1.679	1.677	1.674	1.669	1.662	1.654	1.644	1.632	1.618	1.601
QLD	1.227	1.256	1.287	1.403	1.435	1.466	1.514	1.555	1.595	1.633	1.670	1.705	1.739	1.738	1.738	1.736	1.733	1.728	1.721	1.713	1.702	1.690	1.675	1.658
WA	0.955	0.868	0.696	0.731	0.723	0.716	0.716	0.712	0.708	0.703	0.697	0.691	0.684	0.683	0.683	0.682	0.681	0.679	0.677	0.673	0.669	0.664	0.658	0.652
SA	0.613	0.570	0.493	0.464	0.457	0.449	0.447	0.442	0.437	0.431	0.425	0.418	0.411	0.411	0.411	0.411	0.410	0.409	0.407	0.405	0.403	0.400	0.396	0.392
TAS	0.241	0.242	0.201	0.157	0.150	0.143	0.138	0.132	0.125	0.119	0.112	0.105	0.098	0.098	0.098	0.098	0.098	0.098	0.097	0.097	0.096	0.096	0.095	0.094
NT	0.092	0.060	0.063	0.071	0.071	0.071	0.071	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.071	0.071	0.070	0.070	0.069
ACT	0.071	0.075	0.078	0.075	0.075	0.075	0.075	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.075	0.075	0.074	0.074	0.073

Metropolitan Rigid/Other Truck Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	3.559	4.317	3.097	3.388	3.422	3.455	3.489	3.523	3.557	3.591	3.625	3.659	3.694	3.728	3.762	3.796	3.831	3.865	3.899	3.933	3.967	4.000	4.033	4.066
NSW	1.274	1.547	0.974	1.178	1.186	1.194	1.203	1.211	1.219	1.227	1.235	1.243	1.251	1.259	1.267	1.274	1.282	1.290	1.297	1.304	1.312	1.319	1.326	1.333
VIC	1.009	1.320	0.929	0.953	0.962	0.972	0.981	0.991	1.000	1.010	1.020	1.029	1.039	1.049	1.058	1.068	1.078	1.087	1.097	1.106	1.116	1.125	1.135	1.144
QLD	0.451	0.462	0.427	0.499	0.511	0.523	0.535	0.547	0.559	0.572	0.585	0.598	0.610	0.624	0.637	0.650	0.664	0.677	0.691	0.705	0.719	0.733	0.747	0.762
WA	0.383	0.477	0.352	0.370	0.374	0.377	0.381	0.385	0.388	0.392	0.396	0.400	0.403	0.407	0.411	0.415	0.418	0.422	0.426	0.429	0.433	0.437	0.440	0.444
SA	0.288	0.338	0.278	0.242	0.241	0.240	0.239	0.238	0.236	0.235	0.234	0.232	0.231	0.229	0.227	0.226	0.224	0.222	0.220	0.218	0.216	0.214	0.211	0.209
TAS	0.065	0.088	0.061	0.058	0.059	0.059	0.060	0.060	0.061	0.061	0.062	0.063	0.063	0.064	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069	0.070
NT	0.031	0.024	0.022	0.030	0.030	0.031	0.031	0.031	0.031	0.032	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.035	0.036	0.036
ACT	0.058	0.060	0.055	0.058	0.059	0.059	0.060	0.060	0.061	0.061	0.062	0.063	0.063	0.064	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069	0.070

Non-metropolitan Rigid/Other Truck Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	4.310	3.783	3.217	3.338	3.296	3.253	3.282	3.280	3.273	3.253	3.229	3.200	3.165	3.126	3.091	3.049	3.002	2.948	2.888	2.820	2.745	2.662	2.571	2.471
NSW	1.594	1.377	0.745	1.263	1.028	0.996	0.988	0.970	0.950	0.926	0.901	0.874	0.845	0.836	0.827	0.818	0.806	0.792	0.777	0.759	0.739	0.717	0.693	0.665
VIC	0.793	0.786	0.620	0.658	0.629	0.624	0.637	0.641	0.645	0.646	0.645	0.644	0.641	0.630	0.620	0.609	0.596	0.582	0.566	0.548	0.528	0.507	0.483	0.458
QLD	0.776	0.794	0.788	0.976	0.924	0.944	0.979	1.008	1.036	1.061	1.085	1.108	1.129	1.114	1.101	1.086	1.069	1.050	1.030	1.007	0.983	0.956	0.928	0.896
WA	0.572	0.391	0.326	0.379	0.350	0.338	0.335	0.327	0.320	0.311	0.301	0.291	0.280	0.276	0.272	0.268	0.263	0.257	0.251	0.244	0.236	0.227	0.218	0.208
SA	0.325	0.232	0.251	0.186	0.216	0.209	0.208	0.205	0.201	0.196	0.191	0.186	0.181	0.182	0.184	0.185	0.186	0.187	0.187	0.187	0.187	0.186	0.185	0.183
TAS	0.176	0.154	0.143	0.096	0.092	0.084	0.078	0.071	0.064	0.057	0.050	0.043	0.035	0.034	0.034	0.033	0.032	0.032	0.031	0.030	0.028	0.027	0.026	0.024
NT	0.061	0.036	0.033	0.049	0.041	0.040	0.041	0.041	0.041	0.040	0.040	0.040	0.040	0.039	0.039	0.039	0.038	0.038	0.037	0.036	0.036	0.035	0.034	0.033
ACT	0.013	0.015	0.020	0.020	0.016	0.016	0.016	0.016	0.015	0.015	0.014	0.014	0.013	0.013	0.012	0.011	0.011	0.010	0.009	0.008	0.007	0.006	0.005	0.003

State Travel by Diesel Powered Rigid/Other Trucks(billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	4.669	5.404	5.238	5.993	6.053	6.111	6.236	6.333	6.427	6.509	6.587	6.660	6.729	6.792	6.853	6.846	6.833	6.813	6.787	6.753	6.712	6.662	6.605	6.538
NSW	1.698	2.029	1.587	2.031	2.032	2.033	2.055	2.067	2.078	2.084	2.088	2.091	2.092	2.094	2.094	2.092	2.088	2.082	2.074	2.064	2.051	2.036	2.018	1.998
VIC	1.014	1.247	1.252	1.352	1.372	1.392	1.427	1.456	1.484	1.510	1.535	1.559	1.583	1.598	1.615	1.630	1.643	1.655	1.662	1.654	1.644	1.632	1.618	1.601
QLD	0.851	0.924	1.117	1.327	1.371	1.416	1.477	1.533	1.589	1.633	1.670	1.705	1.739	1.738	1.738	1.736	1.733	1.728	1.721	1.713	1.702	1.690	1.675	1.658
WA	0.514	0.580	0.582	0.618	0.619	0.619	0.626	0.630	0.634	0.636	0.638	0.639	0.640	0.646	0.653	0.659	0.664	0.669	0.673	0.673	0.669	0.664	0.658	0.652
SA	0.363	0.369	0.410	0.394	0.392	0.391	0.393	0.393	0.393	0.392	0.390	0.389	0.386	0.390	0.394	0.398	0.401	0.404	0.407	0.405	0.403	0.400	0.396	0.392
TAS	0.125	0.159	0.163	0.140	0.135	0.131	0.127	0.123	0.118	0.113	0.108	0.102	0.097	0.097	0.098	0.098	0.098	0.098	0.097	0.097	0.096	0.096	0.095	0.094
NT	0.064	0.043	0.056	0.061	0.062	0.062	0.064	0.065	0.066	0.066	0.067	0.068	0.069	0.069	0.070	0.071	0.071	0.072	0.072	0.071	0.071	0.070	0.070	0.069
ACT	0.041	0.053	0.072	0.070	0.071	0.071	0.073	0.074	0.075	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.076	0.075	0.075	0.074	0.074	0.073

Metropolitan Travel by Diesel Powered Rigid/Other Trucks(billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.019	2.850	2.547	2.999	3.063	3.128	3.193	3.259	3.326	3.394	3.463	3.532	3.602	3.673	3.744	3.796	3.831	3.865	3.899	3.933	3.967	4.000	4.033	4.066
NSW	0.689	1.074	0.784	1.076	1.095	1.115	1.135	1.154	1.174	1.194	1.215	1.235	1.251	1.259	1.267	1.274	1.282	1.290	1.297	1.304	1.312	1.319	1.326	1.333
VIC	0.575	0.783	0.741	0.812	0.830	0.848	0.866	0.884	0.902	0.921	0.940	0.959	0.979	0.998	1.018	1.038	1.058	1.078	1.097	1.106	1.116	1.125	1.135	1.144
QLD	0.316	0.341	0.384	0.466	0.482	0.499	0.515	0.533	0.550	0.568	0.585	0.598	0.610	0.624	0.637	0.650	0.664	0.677	0.691	0.705	0.719	0.733	0.747	0.762
WA	0.200	0.318	0.295	0.312	0.319	0.326	0.333	0.340	0.347	0.354	0.362	0.369	0.376	0.384	0.392	0.399	0.407	0.415	0.423	0.429	0.433	0.437	0.440	0.444
SA	0.164	0.217	0.225	0.207	0.209	0.210	0.211	0.213	0.214	0.215	0.216	0.217	0.218	0.219	0.219	0.220	0.221	0.221	0.220	0.218	0.216	0.214	0.211	0.209
TAS	0.030	0.058	0.048	0.049	0.050	0.051	0.052	0.053	0.054	0.056	0.057	0.058	0.059	0.060	0.061	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070
NT	0.017	0.017	0.019	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.030	0.030	0.031	0.031	0.032	0.033	0.033	0.034	0.035	0.035	0.035	0.036	0.036
ACT	0.031	0.042	0.050	0.053	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.064	0.065	0.066	0.066	0.067	0.067	0.068	0.068	0.069	0.070

Non-metropolitan Travel by Diesel Powered Rigid/Other Trucks (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.65	2.55	2.69	2.99	2.99	2.98	3.04	3.07	3.10	3.11	3.12	3.13	3.13	3.12	3.11	3.05	3.00	2.95	2.89	2.82	2.75	2.66	2.57	2.47
NSW	1.01	0.96	0.80	0.96	0.94	0.92	0.92	0.91	0.90	0.89	0.87	0.86	0.84	0.84	0.83	0.82	0.81	0.79	0.78	0.76	0.74	0.72	0.69	0.67
VIC	0.44	0.46	0.51	0.54	0.54	0.54	0.56	0.57	0.58	0.59	0.59	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.57	0.55	0.53	0.51	0.48	0.46
QLD	0.54	0.58	0.73	0.86	0.89	0.92	0.96	1.00	1.04	1.06	1.08	1.11	1.13	1.11	1.10	1.09	1.07	1.05	1.03	1.01	0.98	0.96	0.93	0.90
WA	0.31	0.26	0.29	0.31	0.30	0.29	0.29	0.29	0.29	0.28	0.28	0.27	0.26	0.26	0.26	0.26	0.26	0.25	0.25	0.24	0.24	0.23	0.22	0.21
SA	0.20	0.15	0.19	0.19	0.18	0.18	0.18	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.18
TAS	0.10	0.10	0.12	0.09	0.09	0.08	0.07	0.07	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02
NT	0.05	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03
ACT	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00

Percentage State Travel by Diesel Powered Rigid/Other Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	59.33	66.72	82.96	89.10	90.10	91.10	92.10	93.10	94.10	95.10	96.10	97.10	98.10	99.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	59.21	69.39	82.53	90.79	91.79	92.79	93.79	94.79	95.79	96.79	97.79	98.79	99.79	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
VIC	56.27	59.21	79.59	85.19	86.19	87.19	88.19	89.19	90.19	91.19	92.19	93.19	94.19	95.19	96.19	97.19	98.19	99.19	100.00	100.00	100.00	100.00	100.00	100.00
QLD	69.36	73.57	86.79	94.58	95.58	96.58	97.58	98.58	99.58	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	53.82	66.82	83.62	84.54	85.54	86.54	87.54	88.54	89.54	90.54	91.54	92.54	93.54	94.54	95.54	96.54	97.54	98.54	99.54	100.00	100.00	100.00	100.00	100.00
SA	59.22	64.74	83.16	84.91	85.91	86.91	87.91	88.91	89.91	90.91	91.91	92.91	93.91	94.91	95.91	96.91	97.91	98.91	99.91	100.00	100.00	100.00	100.00	100.00
TAS	51.87	65.70	81.09	89.17	90.17	91.17	92.17	93.17	94.17	95.17	96.17	97.17	98.17	99.17	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	69.57	71.67	89.21	85.92	86.92	87.92	88.92	89.92	90.92	91.92	92.92	93.92	94.92	95.92	96.92	97.92	98.92	99.92	100.00	100.00	100.00	100.00	100.00	100.00
ACT	57.75	70.67	92.31	93.33	94.33	95.33	96.33	97.33	98.33	99.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Metropolitan Travel by Diesel Powered Rigid/Other Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	56.73	66.02	82.24	88.52	89.52	90.52	91.52	92.52	93.52	94.52	95.52	96.52	97.52	98.52	99.52	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	54.08	69.42	80.49	91.34	92.34	93.34	94.34	95.34	96.34	97.34	98.34	99.34	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
VIC	56.99	59.32	79.76	85.20	86.20	87.20	88.20	89.20	90.20	91.20	92.20	93.20	94.20	95.20	96.20	97.20	98.20	99.20	100.00	100.00	100.00	100.00	100.00	100.00
QLD	70.07	73.81	89.93	93.39	94.39	95.39	96.39	97.39	98.39	99.39	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	52.22	66.67	83.81	84.32	85.32	86.32	87.32	88.32	89.32	90.32	91.32	92.32	93.32	94.32	95.32	96.32	97.32	98.32	99.32	100.00	100.00	100.00	100.00	100.00
SA	56.94	64.20	80.94	85.54	86.54	87.54	88.54	89.54	90.54	91.54	92.54	93.54	94.54	95.54	96.54	97.54	98.54	99.54	100.00	100.00	100.00	100.00	100.00	100.00
TAS	46.15	65.91	78.69	84.48	85.48	86.48	87.48	88.48	89.48	90.48	91.48	92.48	93.48	94.48	95.48	96.48	97.48	98.48	99.48	100.00	100.00	100.00	100.00	100.00
NT	54.84	70.83	86.36	83.33	84.33	85.33	86.33	87.33	88.33	89.33	90.33	91.33	92.33	93.33	94.33	95.33	96.33	97.33	98.33	99.33	100.00	100.00	100.00	100.00
ACT	53.45	70.00	90.91	91.38	92.38	93.38	94.38	95.38	96.38	97.38	98.38	99.38	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Non-metropolitan Travel by Diesel Powered Rigid/Other Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	61.48	67.51	83.65	89.69	90.71	91.72	92.72	93.73	94.74	95.75	96.76	97.77	98.78	99.80	100.59	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	63.30	69.35	107.79	75.61	91.16	92.13	93.12	94.10	95.09	96.06	97.04	98.01	99.48	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
VIC	55.36	59.03	82.42	82.07	86.17	87.17	88.17	89.17	90.17	91.17	92.17	93.17	94.17	95.17	96.17	97.17	98.17	99.17	100.00	100.00	100.00	100.00	100.00	100.00
QLD	68.94	73.43	93.02	88.22	96.24	97.25	98.24	99.23	100.23	100.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	54.90	67.01	88.04	80.74	85.77	86.78	87.79	88.80	89.81	90.82	91.83	92.84	93.85	94.86	95.87	96.88	97.89	98.90	99.91	100.00	100.00	100.00	100.00	100.00
SA	61.23	65.52	73.71	100.54	85.22	86.20	87.20	88.19	89.18	90.17	91.15	92.14	93.12	94.13	95.14	96.15	97.16	98.17	99.81	100.00	100.00	100.00	100.00	100.00
TAS	53.98	65.58	80.42	94.79	93.17	94.47	95.76	97.14	98.61	100.21	102.00	104.07	106.61	107.85	108.59	106.89	105.09	103.18	101.13	100.00	100.00	100.00	100.00	100.00
NT	77.05	72.22	112.73	73.47	88.84	89.88	90.88	91.90	92.92	93.95	94.97	96.01	97.04	98.08	99.12	100.16	101.21	102.26	101.55	100.64	100.00	100.00	100.00	100.00
ACT	76.92	73.33	110.00	85.00	101.34	102.72	103.73	104.91	106.12	107.42	107.00	102.81	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Articulated Truck Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	3.588	3.836	3.959	4.867	5.096	5.246	5.453	5.648	5.849	6.050	6.258	6.473	6.695	6.925	7.170	7.424	7.686	7.957	8.238	8.528	8.828	9.139	9.460	9.792
NSW	1.234	1.148	1.141	1.189	1.219	1.229	1.250	1.267	1.283	1.297	1.310	1.322	1.334	1.345	1.393	1.442	1.493	1.546	1.601	1.657	1.715	1.776	1.838	1.902
VIC	0.921	1.111	1.090	1.427	1.504	1.559	1.631	1.701	1.773	1.847	1.923	2.002	2.084	2.169	2.246	2.325	2.407	2.492	2.580	2.671	2.765	2.862	2.963	3.067
QLD	0.518	0.610	0.714	0.997	1.059	1.106	1.166	1.225	1.286	1.348	1.413	1.481	1.552	1.626	1.684	1.743	1.805	1.869	1.935	2.003	2.073	2.146	2.222	2.300
WA	0.326	0.346	0.396	0.478	0.506	0.526	0.552	0.577	0.604	0.631	0.658	0.688	0.718	0.749	0.776	0.803	0.832	0.861	0.891	0.923	0.955	0.989	1.024	1.060
SA	0.399	0.396	0.383	0.515	0.534	0.545	0.561	0.575	0.590	0.604	0.618	0.633	0.648	0.663	0.687	0.711	0.736	0.762	0.789	0.817	0.846	0.876	0.906	0.938
TAS	0.096	0.116	0.112	0.135	0.141	0.146	0.151	0.157	0.162	0.168	0.174	0.180	0.186	0.192	0.199	0.206	0.213	0.221	0.229	0.237	0.245	0.253	0.262	0.272
NT	0.081	0.083	0.098	0.098	0.103	0.106	0.110	0.114	0.118	0.122	0.126	0.130	0.135	0.139	0.144	0.149	0.155	0.160	0.166	0.172	0.178	0.184	0.190	0.197
ACT	0.013	0.025	0.026	0.028	0.029	0.030	0.031	0.032	0.034	0.035	0.036	0.037	0.039	0.040	0.041	0.043	0.044	0.046	0.047	0.049	0.051	0.053	0.054	0.056

Metropolitan Articulated Truck Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.652	0.756	0.736	0.981	1.037	1.078	1.132	1.184	1.237	1.292	1.349	1.408	1.470	1.534	1.603	1.674	1.749	1.827	1.908	1.992	2.080	2.171	2.266	2.365
NSW	0.228	0.259	0.251	0.309	0.324	0.333	0.346	0.359	0.371	0.384	0.397	0.410	0.423	0.437	0.452	0.467	0.483	0.499	0.515	0.532	0.549	0.567	0.585	0.603
VIC	0.184	0.214	0.205	0.343	0.369	0.390	0.416	0.442	0.470	0.498	0.528	0.560	0.593	0.628	0.666	0.706	0.748	0.792	0.839	0.888	0.939	0.994	1.051	1.111
QLD	0.102	0.111	0.115	0.150	0.159	0.165	0.173	0.181	0.189	0.198	0.206	0.215	0.225	0.235	0.245	0.256	0.267	0.279	0.292	0.305	0.318	0.332	0.347	0.362
WA	0.061	0.072	0.073	0.097	0.103	0.107	0.112	0.117	0.122	0.128	0.133	0.139	0.145	0.152	0.158	0.166	0.173	0.181	0.189	0.197	0.206	0.215	0.224	0.234
SA	0.054	0.071	0.067	0.051	0.051	0.050	0.049	0.047	0.046	0.044	0.042	0.039	0.037	0.034	0.030	0.027	0.023	0.018	0.013	0.008	0.002	-0.004	-0.011	-0.019
TAS	0.011	0.017	0.012	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.028	0.029	0.030	0.031	0.033	0.034	0.036	0.037	0.039	0.041	0.042	0.044	0.046	0.048
NT	0.008	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017
ACT	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.012	0.012

Non-metropolitan Articulated Truck Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.936	3.080	3.223	3.886	4.059	4.168	4.321	4.464	4.612	4.758	4.909	5.065	5.225	5.390	5.567	5.749	5.937	6.131	6.330	6.536	6.749	6.968	7.194	7.426
NSW	1.006	0.889	0.890	0.880	0.896	0.896	0.904	0.908	0.911	0.913	0.913	0.913	0.911	0.908	0.941	0.975	1.011	1.047	1.086	1.125	1.166	1.209	1.253	1.299
VIC	0.737	0.897	0.885	1.084	1.135	1.169	1.215	1.259	1.304	1.348	1.394	1.442	1.490	1.540	1.579	1.619	1.659	1.700	1.741	1.783	1.826	1.869	1.912	1.956
QLD	0.416	0.499	0.599	0.847	0.901	0.941	0.993	1.044	1.097	1.151	1.207	1.266	1.328	1.392	1.439	1.487	1.538	1.589	1.643	1.698	1.755	1.814	1.875	1.938
WA	0.265	0.274	0.323	0.381	0.403	0.419	0.440	0.460	0.481	0.503	0.525	0.548	0.572	0.598	0.617	0.638	0.659	0.680	0.703	0.726	0.750	0.774	0.800	0.826
SA	0.345	0.325	0.316	0.464	0.483	0.495	0.512	0.528	0.544	0.560	0.577	0.594	0.611	0.630	0.657	0.685	0.714	0.744	0.776	0.809	0.844	0.880	0.918	0.957
TAS	0.085	0.099	0.100	0.115	0.120	0.124	0.128	0.133	0.137	0.141	0.146	0.151	0.156	0.161	0.166	0.172	0.178	0.183	0.190	0.196	0.202	0.209	0.216	0.223
NT	0.073	0.077	0.091	0.091	0.095	0.098	0.102	0.105	0.109	0.113	0.116	0.120	0.124	0.128	0.133	0.138	0.142	0.147	0.152	0.158	0.163	0.169	0.174	0.180
ACT	0.009	0.020	0.021	0.023	0.024	0.025	0.026	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.038	0.039	0.040	0.042	0.043	0.044

State Travel by Diesel Powered Articulated Trucks (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	3.560	3.809	3.944	4.861	5.093	5.246	5.453	5.648	5.849	6.050	6.258	6.473	6.695	6.925	7.170	7.424	7.686	7.957	8.238	8.528	8.828	9.139	9.460	9.792
NSW	1.228	1.144	1.131	1.185	1.216	1.226	1.248	1.266	1.282	1.297	1.310	1.322	1.334	1.345	1.393	1.442	1.493	1.546	1.601	1.657	1.715	1.776	1.838	1.902
VIC	0.908	1.096	1.088	1.426	1.504	1.559	1.631	1.701	1.773	1.847	1.923	2.002	2.084	2.169	2.246	2.325	2.407	2.492	2.580	2.671	2.765	2.862	2.963	3.067
QLD	0.514	0.609	0.713	0.997	1.059	1.106	1.166	1.225	1.286	1.348	1.413	1.481	1.552	1.626	1.684	1.743	1.805	1.869	1.935	2.003	2.073	2.146	2.222	2.300
WA	0.324	0.341	0.395	0.479	0.506	0.526	0.552	0.577	0.604	0.631	0.658	0.688	0.718	0.749	0.776	0.803	0.832	0.861	0.891	0.923	0.955	0.989	1.024	1.060
SA	0.397	0.395	0.381	0.515	0.534	0.545	0.561	0.575	0.590	0.604	0.618	0.633	0.648	0.663	0.687	0.711	0.736	0.762	0.789	0.817	0.846	0.876	0.906	0.938
TAS	0.095	0.116	0.112	0.135	0.141	0.146	0.151	0.157	0.162	0.168	0.174	0.180	0.186	0.192	0.199	0.206	0.213	0.221	0.229	0.237	0.245	0.253	0.262	0.272
NT	0.081	0.083	0.098	0.098	0.103	0.106	0.110	0.114	0.118	0.122	0.126	0.130	0.135	0.139	0.144	0.149	0.155	0.160	0.166	0.172	0.178	0.184	0.190	0.197
ACT	0.013	0.025	0.026	0.028	0.029	0.030	0.031	0.032	0.034	0.035	0.036	0.037	0.039	0.040	0.041	0.043	0.044	0.046	0.047	0.049	0.051	0.053	0.054	0.056

Metropolitan Travel by Diesel Powered Articulated Trucks(billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.644	0.750	0.734	0.978	1.035	1.076	1.130	1.183	1.237	1.292	1.349	1.408	1.470	1.534	1.603	1.674	1.749	1.827	1.908	1.992	2.080	2.171	2.266	2.365
NSW	0.227	0.258	0.251	0.306	0.321	0.330	0.344	0.356	0.369	0.381	0.394	0.408	0.422	0.436	0.451	0.466	0.482	0.498	0.515	0.532	0.549	0.567	0.585	0.603
VIC	0.179	0.212	0.205	0.343	0.369	0.390	0.416	0.442	0.470	0.498	0.528	0.560	0.593	0.628	0.666	0.706	0.748	0.792	0.839	0.888	0.939	0.994	1.051	1.111
QLD	0.101	0.111	0.115	0.150	0.159	0.165	0.173	0.181	0.189	0.198	0.206	0.215	0.225	0.235	0.245	0.256	0.267	0.279	0.292	0.305	0.318	0.332	0.347	0.362
WA	0.061	0.071	0.073	0.097	0.103	0.107	0.112	0.117	0.122	0.128	0.133	0.139	0.145	0.152	0.158	0.166	0.173	0.181	0.189	0.197	0.206	0.215	0.224	0.234
SA	0.053	0.071	0.066	0.051	0.051	0.050	0.049	0.047	0.046	0.044	0.042	0.039	0.037	0.034	0.030	0.027	0.023	0.018	0.013	0.008	0.002	-0.004	-0.011	-0.019
TAS	0.011	0.017	0.012	0.020	0.021	0.022	0.023	0.024	0.025	0.026	0.028	0.029	0.030	0.031	0.033	0.034	0.036	0.037	0.039	0.041	0.042	0.044	0.046	0.048
NT	0.008	0.007	0.007	0.007	0.007	0.008	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017
ACT	0.004	0.005	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.008	0.008	0.009	0.009	0.009	0.010	0.010	0.011	0.011	0.012	0.012

Non-metropolitan Travel by Diesel Powered Articulated Trucks (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	2.916	3.059	3.210	3.883	4.058	4.169	4.322	4.465	4.612	4.758	4.909	5.065	5.225	5.390	5.567	5.749	5.937	6.131	6.330	6.536	6.749	6.968	7.194	7.426
NSW	1.001	0.886	0.880	0.879	0.895	0.896	0.905	0.910	0.914	0.915	0.915	0.915	0.913	0.910	0.943	0.976	1.012	1.048	1.086	1.125	1.166	1.209	1.253	1.299
VIC	0.729	0.884	0.883	1.083	1.135	1.169	1.215	1.259	1.304	1.348	1.394	1.442	1.490	1.540	1.579	1.619	1.659	1.700	1.741	1.783	1.826	1.869	1.912	1.956
QLD	0.413	0.498	0.598	0.847	0.901	0.941	0.993	1.044	1.097	1.151	1.207	1.266	1.328	1.392	1.439	1.487	1.538	1.589	1.643	1.698	1.755	1.814	1.875	1.938
WA	0.263	0.270	0.322	0.382	0.403	0.419	0.440	0.460	0.481	0.503	0.525	0.548	0.572	0.598	0.617	0.638	0.659	0.680	0.703	0.726	0.750	0.774	0.800	0.826
SA	0.344	0.324	0.315	0.464	0.483	0.495	0.512	0.528	0.544	0.560	0.577	0.594	0.611	0.630	0.657	0.685	0.714	0.744	0.776	0.809	0.844	0.880	0.918	0.957
TAS	0.084	0.099	0.100	0.115	0.120	0.124	0.128	0.133	0.137	0.141	0.146	0.151	0.156	0.161	0.166	0.172	0.178	0.183	0.190	0.196	0.202	0.209	0.216	0.223
NT	0.073	0.076	0.091	0.091	0.095	0.098	0.102	0.105	0.109	0.113	0.116	0.120	0.124	0.128	0.133	0.138	0.142	0.147	0.152	0.158	0.163	0.169	0.174	0.180
ACT	0.009	0.020	0.021	0.023	0.024	0.025	0.026	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.038	0.039	0.040	0.042	0.043	0.044

Percentage State Travel by Diesel Powered Articulated Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	99.22	99.30	99.62	99.88	99.94	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	99.51	99.65	99.12	99.66	99.72	99.78	99.84	99.90	99.96	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
VIC	98.59	98.65	99.82	99.93	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
QLD	99.23	99.84	99.86	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	99.39	98.55	99.75	100.21	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
SA	99.50	99.75	99.48	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
TAS	98.96	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Metropolitan Travel by Diesel Powered Articulated Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	98.77	99.21	99.73	99.69	99.75	99.81	99.87	99.93	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	99.56	99.61	100.00	99.03	99.09	99.15	99.21	99.27	99.33	99.39	99.45	99.51	99.57	99.63	99.69	99.75	99.81	99.87	99.93	99.99	100.00	100.00	100.00	100.00
VIC	97.28	99.07	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
QLD	99.02	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	100.00	98.61	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
SA	98.15	100.00	98.51	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
TAS	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	100.00	116.67	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Non-metropolitan Travel by Diesel Powered Articulated Trucks

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	99.32	99.32	99.60	99.92	99.98	100.04	100.03	100.02	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NSW	99.50	99.66	98.88	99.89	99.95	100.02	100.09	100.15	100.22	100.26	100.24	100.22	100.20	100.18	100.15	100.12	100.09	100.06	100.03	100.01	100.00	100.00	100.00	100.00
VIC	98.91	98.55	99.77	99.91	99.99	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
QLD	99.28	99.80	99.83	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
WA	99.25	98.54	99.69	100.26	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
SA	99.71	99.69	99.68	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
TAS	98.82	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	100.00	98.70	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Bus Travel by State (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	1.098	1.432	1.401	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420	1.420
NSW	0.314	0.427	0.401	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389	0.389
VIC	0.230	0.299	0.293	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304	0.304
QLD	0.224	0.249	0.286	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
WA	0.132	0.202	0.168	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181	0.181
SA	0.116	0.140	0.148	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132	0.132
TAS	0.032	0.046	0.041	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
NT	0.018	0.041	0.023	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
ACT	0.033	0.029	0.042	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028

Metropolitan Bus Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.470	0.656	0.598	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695	0.695
NSW	0.126	0.180	0.161	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216	0.216
VIC	0.118	0.163	0.151	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
QLD	0.065	0.079	0.082	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
WA	0.070	0.115	0.088	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
SA	0.043	0.054	0.054	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
TAS	0.014	0.024	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
NT	0.006	0.015	0.007	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
ACT	0.028	0.026	0.036	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023

Non-metropolitan Bus Travel (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.628	0.776	0.803	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725
NSW	0.188	0.247	0.240	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173	0.173
VIC	0.112	0.136	0.142	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128	0.128
QLD	0.159	0.170	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
WA	0.062	0.087	0.080	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
SA	0.073	0.086	0.094	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
TAS	0.018	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
NT	0.012	0.026	0.016	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
ACT	0.005	0.003	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

State Travel by Diesel Powered Buses (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.703	1.181	1.243	1.265	1.266	1.268	1.269	1.271	1.272	1.274	1.275	1.276	1.278	1.279	1.281	1.282	1.283	1.285	1.286	1.288	1.289	1.291	1.292	1.293
NSW	0.233	0.368	0.380	0.357	0.357	0.358	0.358	0.359	0.359	0.359	0.360	0.360	0.361	0.361	0.361	0.362	0.362	0.362	0.363	0.363	0.364	0.364	0.364	0.365
VIC	0.096	0.234	0.226	0.229	0.229	0.230	0.230	0.230	0.231	0.231	0.231	0.231	0.232	0.232	0.232	0.233	0.233	0.233	0.234	0.234	0.234	0.234	0.235	0.235
QLD	0.143	0.199	0.255	0.256	0.256	0.257	0.257	0.257	0.257	0.258	0.258	0.258	0.259	0.259	0.259	0.259	0.260	0.260	0.260	0.261	0.261	0.261	0.262	0.262
WA	0.083	0.166	0.152	0.177	0.177	0.177	0.178	0.178	0.178	0.178	0.178	0.178	0.179	0.179	0.179	0.179	0.179	0.180	0.180	0.180	0.180	0.180	0.180	0.181
SA	0.093	0.111	0.139	0.124	0.124	0.124	0.124	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.126	0.126	0.126	0.126	0.126	0.126	0.126	0.127	0.127
TAS	0.017	0.039	0.034	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
NT	0.010	0.039	0.021	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
ACT	0.027	0.026	0.037	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028

Metropolitan Travel by Diesel Powered Buses (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.325	0.540	0.544	0.625	0.626	0.626	0.627	0.628	0.628	0.629	0.630	0.631	0.631	0.632	0.633	0.633	0.634	0.635	0.635	0.636	0.637	0.638	0.638	0.639
NSW	0.091	0.155	0.151	0.195	0.195	0.195	0.196	0.196	0.196	0.196	0.197	0.197	0.197	0.197	0.197	0.198	0.198	0.198	0.198	0.198	0.199	0.199	0.199	0.199
VIC	0.063	0.127	0.125	0.145	0.145	0.145	0.146	0.146	0.146	0.146	0.146	0.146	0.147	0.147	0.147	0.147	0.147	0.147	0.148	0.148	0.148	0.148	0.148	0.149
QLD	0.045	0.063	0.075	0.077	0.077	0.077	0.077	0.077	0.077	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.079	0.079	0.079
WA	0.053	0.095	0.084	0.090	0.090	0.090	0.090	0.090	0.090	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.091	0.092	0.092	0.092	0.092
SA	0.038	0.043	0.053	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067	0.067
TAS	0.010	0.020	0.016	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.019
NT	0.004	0.014	0.007	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
ACT	0.022	0.022	0.032	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023

Non-metropolitan Travel by Diesel Powered Buses (billion vehicle-km)

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	0.378	0.641	0.699	0.640	0.641	0.641	0.642	0.643	0.644	0.644	0.645	0.646	0.647	0.647	0.648	0.649	0.649	0.650	0.651	0.652	0.652	0.653	0.654	0.654
NSW	0.142	0.213	0.229	0.162	0.162	0.162	0.163	0.163	0.163	0.163	0.163	0.163	0.164	0.164	0.164	0.164	0.164	0.164	0.165	0.165	0.165	0.165	0.165	0.165
VIC	0.033	0.107	0.101	0.084	0.084	0.084	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.085	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.087
QLD	0.098	0.136	0.180	0.179	0.179	0.179	0.180	0.180	0.180	0.180	0.180	0.181	0.181	0.181	0.181	0.181	0.182	0.182	0.182	0.182	0.182	0.183	0.183	0.183
WA	0.030	0.071	0.068	0.087	0.087	0.087	0.087	0.087	0.087	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.089	0.089	0.089
SA	0.055	0.068	0.086	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.058	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.059
TAS	0.007	0.019	0.018	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.023
NT	0.006	0.025	0.014	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
ACT	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

Percentage State Travel by Diesel Powered Buses

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	64.03	82.47	88.72	89.08	89.18	89.28	89.38	89.48	89.58	89.68	89.78	89.88	89.98	90.08	90.18	90.28	90.38	90.48	90.58	90.68	90.78	90.88	90.98	91.08
NSW	74.20	86.18	94.76	91.77	91.87	91.97	92.07	92.17	92.27	92.37	92.47	92.57	92.67	92.77	92.87	92.97	93.07	93.17	93.27	93.37	93.47	93.57	93.67	93.77
VIC	41.74	78.26	77.13	75.33	75.43	75.53	75.63	75.73	75.83	75.93	76.03	76.13	76.23	76.33	76.43	76.53	76.63	76.73	76.83	76.93	77.03	77.13	77.23	77.33
QLD	63.84	79.92	89.16	87.97	88.07	88.17	88.27	88.37	88.47	88.57	88.67	88.77	88.87	88.97	89.07	89.17	89.27	89.37	89.47	89.57	89.67	89.77	89.87	89.97
WA	62.88	82.18	90.48	97.79	97.89	97.99	98.09	98.19	98.29	98.39	98.49	98.59	98.69	98.79	98.89	98.99	99.09	99.19	99.29	99.39	99.49	99.59	99.69	99.79
SA	80.17	79.29	93.92	93.94	94.04	94.14	94.24	94.34	94.44	94.54	94.64	94.74	94.84	94.94	95.04	95.14	95.24	95.34	95.44	95.54	95.64	95.74	95.84	95.94
TAS	53.13	84.78	82.93	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	55.56	95.12	91.30	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	81.82	89.66	88.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Metropolitan Travel by Diesel Powered Buses

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	69.15	82.32	90.97	89.93	90.03	90.13	90.23	90.33	90.43	90.53	90.63	90.73	90.83	90.93	91.03	91.13	91.23	91.33	91.43	91.53	91.63	91.73	91.83	91.93
NSW	72.22	86.11	93.79	90.28	90.38	90.48	90.58	90.68	90.78	90.88	90.98	91.08	91.18	91.28	91.38	91.48	91.58	91.68	91.78	91.88	91.98	92.08	92.18	92.28
VIC	53.39	77.91	82.78	82.39	82.49	82.59	82.69	82.79	82.89	82.99	83.09	83.19	83.29	83.39	83.49	83.59	83.69	83.79	83.89	83.99	84.09	84.19	84.29	84.39
QLD	69.23	79.75	91.46	88.51	88.61	88.71	88.81	88.91	89.01	89.11	89.21	89.31	89.41	89.51	89.61	89.71	89.81	89.91	90.01	90.11	90.21	90.31	90.41	90.51
WA	75.71	82.61	95.45	96.77	96.87	96.97	97.07	97.17	97.27	97.37	97.47	97.57	97.67	97.77	97.87	97.97	98.07	98.17	98.27	98.37	98.47	98.57	98.67	98.77
SA	88.37	79.63	98.15	94.29	94.39	94.49	94.59	94.69	94.79	94.89	94.99	95.09	95.19	95.29	95.39	95.49	95.59	95.69	95.79	95.89	95.99	96.09	96.19	96.29
TAS	71.43	83.33	88.89	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	66.67	93.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	78.57	84.62	88.89	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Percentage Non-metropolitan Travel by Diesel Powered Buses

	1985	1988	1991	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Australia	60.19	82.60	87.05	88.28	88.38	88.48	88.58	88.68	88.78	88.88	88.98	89.08	89.18	89.28	89.38	89.48	89.58	89.68	89.78	89.88	89.98	90.08	90.18	90.28
NSW	75.53	86.23	95.42	93.64	93.74	93.84	93.94	94.04	94.14	94.24	94.34	94.44	94.54	94.64	94.74	94.84	94.94	95.04	95.14	95.24	95.34	95.44	95.54	95.64
VIC	29.46	78.68	71.13	65.63	65.73	65.83	65.93	66.03	66.13	66.23	66.33	66.43	66.53	66.62	66.73	66.82	66.92	67.02	67.12	67.23	67.32	67.42	67.52	67.62
QLD	61.64	80.00	88.24	87.75	87.85	87.95	88.05	88.15	88.25	88.35	88.45	88.55	88.65	88.75	88.85	88.95	89.05	89.15	89.25	89.35	89.45	89.55	89.65	89.75
WA	48.39	81.61	85.00	98.86	98.96	99.06	99.16	99.26	99.36	99.46	99.56	99.66	99.76	99.86	99.96	100.06	100.16	100.26	100.36	100.46	100.56	100.66	100.76	100.86
SA	75.34	79.07	91.49	93.55	93.65	93.75	93.85	93.95	94.05	94.15	94.25	94.35	94.45	94.55	94.65	94.75	94.85	94.95	95.05	95.15	95.25	95.35	95.45	95.55
TAS	38.89	86.36	78.26	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
NT	50.00	96.15	87.50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
ACT	100.00	133.33	83.33	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

APPENDIX G: REFERENCES

Apelbaum Consulting Group Pty Ltd (1991), "*The Australian Transport Task And The Primary Energy Consumed - The 1990-91 Compendium*", Vols A and B, Prepared for the AAA, AIP, BTCE, DPIE, ESAA, and the NR Corporation.

Apelbaum Consulting Group Pty Ltd (1995), "*Australian Trucking And The Environment - Dispelling The Myths*", Report prepared for the Road Transport Forum.

Apelbaum Consulting Group Pty Ltd (1997), "*Australian Transport Task, Energy Consumed and Greenhouse Emissions*", Vols A and B, Prepared for the ANGVC, AAA, ASA, BTCE, DOT-SA, DOTRD, DPIE, M&E-SA, RTF and the RTA-NSW.

Australian Bureau Of Statistics (1996), "*Survey Of Motor Vehicle Use, Australia*", Preliminary Cat No. 9202.0.

Australian Bureau Of Statistics (1997), "*Motor Vehicle Census, Australia*", Preliminary Cat No. 9309.0.

Australian Bureau Of Statistics (1998), "*Year Book, Australia*", Preliminary Cat No. 1301.

Australian Transport News (1998), "*Sulphur Decrease*". March 1997, pps 48-49.

Austroads, (1996), "National Performance Indicators". Report AP-43/96. Austroads, Sydney.

Austroads, (1998), "National Performance Indicators, 1997". Report AP-43/98. Austroads, Sydney.

Bennett, C.R. (1990), "The Depreciation Of Motor Vehicles In New Zealand", Transportation Research Record 1262. Transportation Research Board.

Boyle, R. (1998), *Personal Communication on Vehicle Emission Factors Used in EPA 1998*.

Bray, D. (1995), "*Transport Strategy for Adelaide: Background Paper*". Report to Transport Policy Unit, SA. September, 1995.

BTCE (1995), "*Greenhouse Gas Emissions from Australian Transport: Long Term Projections*". Report 88. Bureau of Transport and Communications Economics. AGPS.

BTCE (1996a), "*Costs of Reducing Greenhouse Gas Emissions from Australian Road Freight Vehicles: An Application of the BTCE Truckmod Model*". Working Paper 22. Bureau of Transport and Communications Economics.

BTCE (1996b), "*Costs of Reducing Greenhouse Gas Emissions from Australian Cars: An Application of the BTCE Carmod Model*", Working Paper 24. Bureau of Transport and Communications Economics.

BTCE (1998), "*Forecasting Light Vehicle Traffic*", Working Paper 38. Bureau of Transport and Communications Economics.

CONCAWE (1995), "*Motor Vehicle Emission Regulations and Fuel Specifications in Europe and the United States. 1995 Update*", Brussels.

Cox, J.B. (1997), "Roads In The Community – Are They Doing Their Job?" Report AP49/97.

Cox/Arup (1996), "Models For Predicting Vehicle Operating Costs In Urban Areas", Report to Austroads by John B Cox and Ove Arup transport Planning. Project BS3.A.41, January, 1996.

Dickson, J. (1998), "*How Diesel can get Clean Away from Gas*". Transport Engineer. January 1998. Pp.24-26.

DTM (1997), "*Fuel Consumption Project*". Report for Department of Primary Industries and Energy. Dynamic Transport Management.

Endersbee, L. (1998), "National Infrastructure For National Development", Paper to Northern Australia Infrastructure Conference, November 23, 1998. IBC Conferences.

EPA (1996), "*Technical Report On Air Emissions Trial. National Pollutant Inventory*", Volume 2. Environment Protection Agency of Victoria. AGPS.

EPA (1998), "*Air Emissions Inventory. Port Phillip Bay*". Report 535. Environment Protection Agency of Victoria. December 1998.

Faiz, A., Weaver, C.S. And Walsh, M.P. (1996), "*Air Pollution from Motor Vehicles; Standards and Technologies for Controlling Emissions*". World Bank. Washington.

Federal Office Of Road Safety . 1996. "*Motor Vehicle Pollution in Australia: Report on the National Inservice Vehicle Emissions*". Federal Office of Road Safety. Department of Transport and Communications. Canberra.

Federal Office Of Road Safety (1998), "*The Australian Design Rules For Road Vehicles As At Determination No. 2 of 1997*". Federal Office of Road Safety. Department of Transport and Communications. Canberra.

-
- FHWA.** (1998), "*Highway Statistics 1997*". Report No. FHWA-PL-98-020. Federal Highway Administration. US Department of Transportation.
- Grant, W.T.** (1992), "*Automobile, Environment and Energy Savings*", European Symposium on Auto Emissions 2000, Commission of the European Communities, Brussels.
- NRTC.** (1996). *Road and Bridge Statistical Tables*. Appendices to Technical Supplement 2. Mass Limits Review. National Road Transport Commission.
- Houghton, J.** (Chairman) (1994), "*Transport And The Environment*", Report 18, Royal Commission on Environmental Pollution, UK.
- NTPF** (1995), "Congestion Management: Discussion Paper", Urban Transport Working Group, National Transport Planning Framework.
- Sjodin, A., Persson, K., Anreassen, K., Arlander, B., and Galle, B.** (1998), "*On0road Emission Factors Derived from Measurements in a Traffic Tunnel*". Int. J. Of Vehicle Design. Vol. 20.pp.147-158.
- Thoreson, T. and Wigan, M.** (1985), "Fleet Dynamics: Australian Motor Car Fleet Population Adjustments Over A Decade Of Significant Change". Tenth Australian Road Transport Forum Conference, Vol. 1, pp 171-192.
- Tsolakis, D.; Murphy, C. and Cox J.B.** (1998), "Implications For The Road Transport Sector Of Potential Taxation Reform", Working Document WD R98/037. ARRB Transport Research, December 1998.
- Vicroads** (1999), "Traffic System Performance Monitoring 1997/98", Vicroads, January, 1999.