



OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	37.3	37.3	37.3		37.3	37.3	37.3	37.3	37.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.67	0.00	0.00	0.00	0.00	1.76	2.35	45.61	0.12	9.77

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

065 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	40.4	40.4	40.4		40.4	40.4	40.4	40.4	40.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.68	0.00	0.00	0.00	0.00	1.80	2.40	46.63	0.12	9.97

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

070 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	43.5	43.5	43.5		43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.70	0.00	0.00	0.00	0.00	1.87	2.49	48.33	0.12	10.30

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

075 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	46.6	46.6	46.6		46.6	46.6	46.6	46.6	46.6	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.71	0.00	0.00	0.00	0.00	1.96	2.62	50.79	0.13	10.77

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

080 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	49.7	49.7	49.7		49.7	49.7	49.7	49.7	49.7	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.84	0.00	0.00	0.00	0.00	2.09	2.79	54.10	0.14	11.45

O Emission factors are as of July 1st of the indicated calendar year.



0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                          I/M Program: No      Ambient Temp: 92.0 (F)  
                          Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                          Reformulated Gas: No

085 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	52.8	52.8	52.8		52.8	52.8	52.8	52.8	52.8	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.08	0.00	0.00	0.00	0.00	2.26	3.01	58.42	0.15	12.37

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                          I/M Program: No      Ambient Temp: 92.0 (F)  
                          Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                          Reformulated Gas: No

090 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	55.9	55.9	55.9		55.9	55.9	55.9	55.9	55.9	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.32	0.00	0.00	0.00	0.00	2.47	3.29	63.95	0.16	13.52

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                          I/M Program: No      Ambient Temp: 92.0 (F)  
                          Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                          Reformulated Gas: No

095 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	59.0	59.0	59.0		59.0	59.0	59.0	59.0	59.0	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.56	0.00	0.00	0.00	0.00	2.75	3.65	70.96	0.17	14.95

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                          I/M Program: No      Ambient Temp: 92.0 (F)  
                          Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                          Reformulated Gas: No

0100 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	62.1	62.1	62.1		62.1	62.1	62.1	62.1	62.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.80	0.00	0.00	0.00	0.00	3.09	4.11	79.83	0.19	16.73



1

MOBILE5a - (DATED 93085)

IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 10/24/2002 at 18:18:31

1TAcIDES(JICA) Yr2000 3/4 Taxi(L)  
 MOBILE5a (26-Mar-93)

0Replacement Tampering and Misfueling Rates Input by User:  
 0 Non-I/M Case

0 MYG1:pre1981

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0320	0.0767	0.0320	0.0767	0.0320	0.0767
Catalyst	0.0000	0.0000	0.0785	0.0444	0.0785	0.0444	0.0785	0.0444
Fuel Inlet	0.0000	0.0000	0.1519	0.0297	0.1519	0.0297	0.1519	0.0297
Other Misfueling	0.0000	0.0000	-0.1519	-0.0297	-0.1519	-0.0297	-0.1519	-0.0297
EGR System	0.0000	0.0000	-0.2435	0.1198	-0.2435	0.1198	-0.2435	0.1198
Evap Canister	0.0000	0.0000	-0.0195	0.0438	-0.0195	0.0438	-0.0195	0.0438
PCV System	0.0000	0.0000	0.0000	0.0073	0.0000	0.0073	0.0000	0.0073
Cap	0.0000	0.0000	-0.1849	0.0839	-0.1849	0.0839	-0.1849	0.0839
All Misfueling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

0 MYG2:1981-83

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0389	0.0299	-0.0389	0.0299	-0.0389	0.0299
Catalyst	0.0000	0.0000	-0.0018	0.0258	-0.0018	0.0258	-0.0018	0.0258
Fuel Inlet	0.0000	0.0000	0.0017	0.0188	0.0017	0.0188	0.0017	0.0188
Other Misfueling	0.0000	0.0000	0.0080	-0.0173	0.0080	-0.0173	0.0080	-0.0173
EGR System	0.0000	0.0000	-0.0204	0.0258	-0.0204	0.0258	-0.0204	0.0258
Evap Canister	0.0000	0.0000	0.0009	0.0057	0.0009	0.0057	0.0009	0.0057
PCV System	0.0000	0.0000	0.0145	0.0003	0.0145	0.0003	0.0145	0.0003
Cap	0.0000	0.0000	-0.0590	0.0270	-0.0590	0.0270	-0.0590	0.0270
All Misfueling	0.0000	0.0000	0.0097	0.0015	0.0097	0.0015	0.0097	0.0015

0 MYG2:1984+

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0039	0.0088	-0.0039	0.0088	-0.0039	0.0088
Catalyst	0.0000	0.0000	0.0024	0.0035	0.0024	0.0035	0.0024	0.0035
Fuel Inlet	0.0000	0.0000	0.0075	0.0006	0.0075	0.0006	0.0075	0.0006
Other Misfueling	0.0000	0.0000	-0.0150	0.0045	-0.0150	0.0045	-0.0150	0.0045
EGR System	0.0000	0.0000	-0.0019	0.0053	-0.0019	0.0053	-0.0019	0.0053
Evap Canister	0.0000	0.0000	0.0100	0.0011	0.0100	0.0011	0.0100	0.0011
PCV System	0.0000	0.0000	0.0011	0.0009	0.0011	0.0009	0.0011	0.0009
Cap	0.0000	0.0000	0.0092	0.0047	0.0092	0.0047	0.0092	0.0047
All Misfueling	0.0000	0.0000	-0.0075	0.0051	-0.0075	0.0051	-0.0075	0.0051

0 Emission Factor Modification Profile

Equation	Reg	Veh	Poi	First MY	Last MY	Base	DR	50K DR	Altered
1	1	1	3	1971	1994	0.64	0.00	0.00	Yes
2	1	1	3	1995	1995	0.64	0.00	0.00	Yes
3	1	1	3	1996	1998	0.64	0.00	0.00	Yes
4	1	1	3	1999	2003	0.64	0.00	0.00	Yes
5	1	1	3	2004	2011	0.64	0.00	0.00	Yes
6	1	5	3	1971	1994	1.84	0.04		Yes
7	1	5	3	1995	1995	1.84	0.04		Yes
8	1	5	3	1996	2000	1.63	0.04		Yes
9	1	5	3	2001	2003	1.32	0.03		Yes
10	1	5	3	2004	2011	1.18	0.03		Yes
11	1	6	3	1971	1994	2.49	0.08		Yes
12	1	6	3	1995	1996	2.49	0.08		Yes
13	1	6	3	1997	2000	1.37	0.03		Yes



14	1	6	3	2001	2003	1.18	0.03	Yes
15	1	6	3	2004	2011	0.92	0.03	Yes
16	1	7	3	1971	1997	51.43	0.43	Yes
17	1	7	3	1998	1999	34.08	0.35	Yes
18	1	7	3	2000	2011	29.83	0.35	Yes
19	1	8	3	1976	1994	0.08	0.00	Yes
20	1	8	3	1995	1995	0.09	0.00	Yes
21	1	8	3	1996	1996	0.10	0.00	Yes
22	1	8	3	1997	1997	0.12	0.00	Yes
23	1	8	3	1998	1998	0.19	0.00	Yes
24	1	8	3	1999	1999	0.22	0.00	Yes
25	1	8	3	2000	2000	0.28	0.00	Yes
26	1	8	3	2001	2001	0.31	0.00	Yes
27	1	8	3	2002	2002	0.33	0.00	Yes
28	1	8	3	2003	2003	0.35	0.00	Yes
29	1	8	3	2004	2011	0.37	0.00	Yes

0Replacement Diesel Sales Fractions Input by User:

0	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
+										
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
+										
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0	1996	1997	1998	1999	2000					
+										
LDDV:	0.010	0.010	0.010	0.010	0.010					
LDDT:	0.010	0.010	0.010	0.010	0.010					

0Total HC emission factors include evaporative HC emission factors.

0

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

05 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	3.1	3.1	3.1		3.1	3.1	3.1	3.1	3.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.06	0.00	0.00	0.00	0.00	3.41	4.55	88.26	0.10	17.13

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

010 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	6.2	6.2	6.2		6.2	6.2	6.2	6.2	6.2	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.88	0.00	0.00	0.00	0.00	3.00	4.00	77.63	0.09	15.04

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

015 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh



+										
Veh. Spd.:	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	2.68	3.56	69.20	0.08	13.42

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

020 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	HDDV	MC	All Veh

+										
Veh. Spd.:	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.79	0.00	0.00	0.00	0.00	2.42	3.22	62.59	0.08	12.17

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

025 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	HDDV	MC	All Veh

+										
Veh. Spd.:	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.78	0.00	0.00	0.00	0.00	2.22	2.95	57.35	0.09	11.17

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

030 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	HDDV	MC	All Veh

+										
Veh. Spd.:	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.76	0.00	0.00	0.00	0.00	2.06	2.74	53.28	0.09	10.40

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

035 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	HDDV	MC	All Veh

+										
Veh. Spd.:	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.77	0.00	0.00	0.00	0.00	1.94	2.58	50.17	0.10	9.81

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates,



mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

040 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 24.8 24.8 24.8 24.8 24.8 24.8 24.8 24.8  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.78 0.00 0.00 0.00 0.00 1.85 2.47 47.89 0.10 9.39

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

045 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 28.0 28.0 28.0 28.0 28.0 28.0 28.0 28.0  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.79 0.00 0.00 0.00 0.00 1.79 2.38 46.31 0.11 9.10

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

050 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 31.1 31.1 31.1 31.1 31.1 31.1 31.1 31.1  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.80 0.00 0.00 0.00 0.00 1.76 2.34 45.45 0.11 8.94

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

055 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 34.2 34.2 34.2 34.2 34.2 34.2 34.2 34.2  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.81 0.00 0.00 0.00 0.00 1.75 2.33 45.22 0.12 8.90

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

060 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020



0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	37.3	37.3	37.3		37.3	37.3	37.3	37.3	37.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.81	0.00	0.00	0.00	0.00	1.76	2.35	45.61	0.12	8.98

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

065 km/hr

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	40.4	40.4	40.4		40.4	40.4	40.4	40.4	40.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	1.80	2.40	46.63	0.12	9.17

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

070 km/hr

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	43.5	43.5	43.5		43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	1.87	2.49	48.33	0.12	9.49

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

075 km/hr

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	46.6	46.6	46.6		46.6	46.6	46.6	46.6	46.6	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	1.96	2.62	50.79	0.13	9.96

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

080 km/hr

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	49.7	49.7	49.7		49.7	49.7	49.7	49.7	49.7	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.86	0.00	0.00	0.00	0.00	2.09	2.79	54.10	0.14	10.60

0Emission factors are as of July 1st of the indicated calendar year.



0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
mileage accrual distributions, veh registration distributions.  
0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

085 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
+  
Veh. Spd.: 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8 52.8  
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
0Composite Emission Factors (Gm/Mile)  
Exhst NOX: 0.94 0.00 0.00 0.00 0.00 2.26 3.01 58.42 0.15 11.45

0Emission factors are as of July 1st of the indicated calendar year.  
0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
mileage accrual distributions, veh registration distributions.  
0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

090 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
+  
Veh. Spd.: 55.9 55.9 55.9 55.9 55.9 55.9 55.9 55.9 55.9  
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
0Composite Emission Factors (Gm/Mile)  
Exhst NOX: 1.01 0.00 0.00 0.00 0.00 2.47 3.29 63.95 0.16 12.53

0Emission factors are as of July 1st of the indicated calendar year.  
0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
mileage accrual distributions, veh registration distributions.  
0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

095 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
+  
Veh. Spd.: 59.0 59.0 59.0 59.0 59.0 59.0 59.0 59.0 59.0  
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
0Composite Emission Factors (Gm/Mile)  
Exhst NOX: 1.08 0.00 0.00 0.00 0.00 2.75 3.65 70.96 0.17 13.89

0Emission factors are as of July 1st of the indicated calendar year.  
0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
mileage accrual distributions, veh registration distributions.  
0Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
I/M Program: No Ambient Temp: 92.0 (F)  
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
Reformulated Gas: No

0100 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
+  
Veh. Spd.: 62.1 62.1 62.1 62.1 62.1 62.1 62.1 62.1 62.1  
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
0Composite Emission Factors (Gm/Mile)  
Exhst NOX: 1.16 0.00 0.00 0.00 0.00 3.09 4.11 79.83 0.19 15.59





1

MOBILE5a - (DATED 93085)

IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 11/27/2002 at 20:22:48

1TAcIDES(JICA) Yr2000 4/4 LDDV/T,HDDV,MC  
 MOBILE5a (26-Mar-93)

0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	50K DR	Altered
1	1	1	3	1971	1994	3.44	0.00	0.00	Yes
2	1	1	3	1995	1995	0.50	0.07	0.20	Yes
3	1	1	3	1996	1998	0.21	0.08	0.19	Yes
4	1	1	3	1999	2003	0.13	0.08	0.19	Yes
5	1	1	3	2004	2011	0.08	0.08	0.19	Yes
6	1	5	3	1971	1994	1.84	0.04		Yes
7	1	5	3	1995	1995	1.84	0.04		Yes
8	1	5	3	1996	2000	1.63	0.04		Yes
9	1	5	3	2001	2003	1.32	0.03		Yes
10	1	5	3	2004	2011	1.18	0.03		Yes
11	1	6	3	1971	1994	2.49	0.08		Yes
12	1	6	3	1995	1996	2.49	0.08		Yes
13	1	6	3	1997	2000	1.36	0.03		Yes
14	1	6	3	2001	2003	1.18	0.03		Yes
15	1	6	3	2004	2011	0.92	0.03		Yes
16	1	7	3	1971	1997	51.43	0.14		Yes
17	1	7	3	1998	1999	34.08	0.00		Yes
18	1	7	3	2000	2005	29.83	0.00		Yes
19	1	7	3	2006	2011	21.30	0.00		Yes
20	1	8	3	1976	1994	0.08	0.00		Yes
21	1	8	3	1995	1995	0.09	0.00		Yes
22	1	8	3	1996	1996	0.10	0.00		Yes
23	1	8	3	1997	1997	0.12	0.00		Yes
24	1	8	3	1998	1998	0.19	0.00		Yes
25	1	8	3	1999	1999	0.22	0.00		Yes
26	1	8	3	2000	2000	0.28	0.00		Yes
27	1	8	3	2001	2001	0.31	0.00		Yes
28	1	8	3	2002	2002	0.33	0.00		Yes
29	1	8	3	2003	2003	0.35	0.00		Yes
30	1	8	3	2004	2011	0.37	0.00		Yes

0 Replacement Diesel Sales Fractions Input by User:

	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.000	0.000	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	1996	1997	1998	1999	2000					
LDDV:	0.010	0.010	0.010	0.010	0.010					
LDDT:	0.010	0.010	0.010	0.010	0.010					

0 Total HC emission factors include evaporative HC emission factors.

0 Emission factors are as of July 1st of the indicated calendar year.

0 User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0 Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
 I/M Program: No      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

05 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	3.1	3.1	3.1		3.1	3.1	3.1	3.1	3.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0 Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.70	0.00	0.00	0.00	0.00	3.64	4.28	84.34	0.11	17.54



0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

010 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	6.2	6.2	6.2		6.2	6.2	6.2	6.2	6.2	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	3.10	0.00	0.00	0.00	0.00	3.20	3.77	74.18	0.10	15.36

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

015 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	9.3	9.3	9.3		9.3	9.3	9.3	9.3	9.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.89	0.00	0.00	0.00	0.00	2.85	3.36	66.12	0.09	13.75

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

020 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	12.4	12.4	12.4		12.4	12.4	12.4	12.4	12.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.79	0.00	0.00	0.00	0.00	2.58	3.04	59.81	0.09	12.51

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

025 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	15.5	15.5	15.5		15.5	15.5	15.5	15.5	15.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.72	0.00	0.00	0.00	0.00	2.36	2.78	54.81	0.10	11.54

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No



030 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020					
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	18.6	18.6	18.6		18.6	18.6	18.6	18.6	18.6	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.68	0.00	0.00	0.00	0.00	2.19	2.58	50.91	0.10	10.79

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

035 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020					
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	21.7	21.7	21.7		21.7	21.7	21.7	21.7	21.7	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.70	0.00	0.00	0.00	0.00	2.07	2.43	47.94	0.11	10.24

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

040 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020					
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	24.8	24.8	24.8		24.8	24.8	24.8	24.8	24.8	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.74	0.00	0.00	0.00	0.00	1.97	2.32	45.76	0.11	9.84

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

045 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020					
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	28.0	28.0	28.0		28.0	28.0	28.0	28.0	28.0	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.77	0.00	0.00	0.00	0.00	1.91	2.25	44.25	0.12	9.57

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

050 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020					
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	31.1	31.1	31.1		31.1	31.1	31.1	31.1	31.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										



Exhst NOX: 2.80 0.00 0.00 0.00 0.00 1.87 2.20 43.43 0.13 9.43

OEmission factors are as of July 1st of the indicated calendar year.  
 OUser supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 OCal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No  
 055 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 OVeh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 34.2 34.2 34.2 34.2 34.2 34.2 34.2 34.2  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 OComposite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.82 0.00 0.00 0.00 0.00 1.86 2.19 43.21 0.13 9.39

OEmission factors are as of July 1st of the indicated calendar year.  
 OUser supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 OCal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No  
 060 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 OVeh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 OComposite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.84 0.00 0.00 0.00 0.00 1.88 2.21 43.58 0.13 9.47

OEmission factors are as of July 1st of the indicated calendar year.  
 OUser supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 OCal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No  
 065 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 OVeh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 40.4 40.4 40.4 40.4 40.4 40.4 40.4 40.4  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 OComposite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.85 0.00 0.00 0.00 0.00 1.92 2.26 44.56 0.14 9.67

OEmission factors are as of July 1st of the indicated calendar year.  
 OUser supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 OCal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No  
 070 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 OVeh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 43.5 43.5 43.5 43.5 43.5 43.5 43.5 43.5  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 OComposite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.87 0.00 0.00 0.00 0.00 1.99 2.34 46.19 0.14 9.98

OEmission factors are as of July 1st of the indicated calendar year.  
 OUser supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.  
 OCal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6



Reformulated Gas: No

075 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	46.6	46.6	46.6		46.6	46.6	46.6	46.6	46.6	46.6
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.89	0.00	0.00	0.00	0.00	2.09	2.46	48.53	0.14	10.43

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

080 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	49.7	49.7	49.7		49.7	49.7	49.7	49.7	49.7	49.7
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	3.06	0.00	0.00	0.00	0.00	2.23	2.62	51.70	0.15	11.10

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

085 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	52.8	52.8	52.8		52.8	52.8	52.8	52.8	52.8	52.8
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	3.36	0.00	0.00	0.00	0.00	2.41	2.83	55.82	0.16	12.02

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

090 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	55.9	55.9	55.9		55.9	55.9	55.9	55.9	55.9	55.9
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	3.66	0.00	0.00	0.00	0.00	2.63	3.10	61.11	0.18	13.15

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2000 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

095 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	59.0	59.0	59.0		59.0	59.0	59.0	59.0	59.0	59.0
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	



0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 3.96 0.00 0.00 0.00 0.00 2.92 3.44 67.81 0.19 14.54

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions,  
 veh registration distributions.

0Cal. Year: 2000      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

0100 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh

+  
 Veh. Spd.: 62.1 62.1 62.1 62.1 62.1 62.1 62.1 62.1 62.1  
 VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167

0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 4.26 0.00 0.00 0.00 0.00 3.29 3.87 76.28 0.21 16.27



1  
TAcIDES(JICA) Yr2011 1/4 LDGV  
2  
1  
3  
4  
2  
2  
1  
1  
1  
1  
1  
4  
3  
1  
1  
2  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
-0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
-0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.026200.000600-0.012200.019700-0.002100.0100000.000000.009200  
-0.026200.000600-0.012200.019700-0.002100.0100000.000000.009200  
-0.026200.000600-0.012200.019700-0.002100.0100000.000000.009200  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0767000.0444000.0297000.000000.1198000.0438000.0073000.083900  
0.0767000.0444000.0297000.000000.1198000.0438000.0073000.083900  
0.0767000.0444000.0297000.000000.1198000.0438000.0073000.083900  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.0000000  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
.430.000.000.000.070.155.178.167  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000



0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.110590.110740.111110.105870.110590.108140.105130.10000  
0.100000.100000.100000.100000.10000  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
0.0850.0770.0690.0620.0560.0510.0460.0410.0370.034  
0.0310.0270.0200.0150.0460.0480.0450.0460.0420.033  
0.0230.0250.0180.0140.009  
6  
1 1 3 71 94 3.4400 0.0000 0.0000  
1 1 3 95 95 0.5000 0.0750 0.2160  
1 1 3 96 98 0.2070 0.0830 0.1940  
1 1 3 99 03 0.1290 0.0830 0.1950  
1 1 3 04 07 0.0850 0.0830 0.1950  
1 1 3 08 20 0.0770 0.0830 0.1950  
97 25 60 20 3 3 96 1 1 2111 1211 220. 1.20 999.  
1 11 3.11 91.9 20.6 27.3 20.6 7  
5 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010  
1 11 6.21 91.9 20.6 27.3 20.6 7  
10 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010  
1 11 9.32 91.9 20.6 27.3 20.6 7  
15 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010  
1 11 12.4 91.9 20.6 27.3 20.6 7  
20 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010  
1 11 15.5 91.9 20.6 27.3 20.6 7  
25 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010  
1 11 18.6 91.9 20.6 27.3 20.6 7  
30 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010







1  
TAcIDES(JICA) Yr2011 2/4 Taxi (G)  
2  
1  
3  
4  
2  
2  
1  
1  
1  
1  
1  
4  
3  
1  
1  
2  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.032000.078500.151900.000000-0.24350-0.019500.000000-0.18490  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.03890-0.001800.001700.009700-0.020400.0009000.014500-0.05900  
-0.03890-0.001800.001700.009700-0.020400.0009000.014500-0.05900  
-0.03890-0.001800.001700.009700-0.020400.0009000.014500-0.05900  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
-0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.0615000.1037000.137600-0.088500.0808000.069500-0.015600.047100  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
-0.03180-0.006200.020100-0.058000.053800-0.01260-0.02610-0.03140  
0.000000.000000.000000.000000.000000.000000.000000.000000  
-0.026200.000600-0.012200.019700-0.002100.0100000.0000000.009200  
-0.026200.000600-0.012200.019700-0.002100.0100000.0000000.009200  
-0.026200.000600-0.012200.019700-0.002100.0100000.0000000.009200  
0.000000.000000.000000.000000.000000.000000.000000.000000  
0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.000000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.000000  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.000000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.0304000.0203000.0210000.0178000.0114000.0093000.0040000.015000  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.000000  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0148000.0109000.0031000.0198000.0000000.0128000.0079000.018400  
0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.000000  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
0.0164000.0043000.0081000.0005000.0027000.0011000.0000000.004700  
.430.000.000.000.070.155.178.167  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
0.000000.000000.000000.000000.000000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
0.000000.000000.000000.000000.000000  
0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
0.000000.000000.000000.000000.000000



0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.000  
 6  
 1 1 3 71 94 3.4400 0.0000 0.0000  
 1 1 3 95 95 0.5000 0.0750 0.2160  
 1 1 3 96 98 0.2070 0.0830 0.1940  
 1 1 3 99 03 0.1290 0.0830 0.1950  
 1 1 3 04 07 0.0850 0.0830 0.1950  
 1 1 3 08 20 0.0770 0.0830 0.1950  
 97 25 60 20 3 3 96 1 1 2111 1211 220. 1.20 999.  
 1 11 3.11 91.9 20.6 27.3 20.6 7  
 5 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 1 11 6.21 91.9 20.6 27.3 20.6 7  
 10 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 1 11 9.32 91.9 20.6 27.3 20.6 7  
 15 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 1 11 12.4 91.9 20.6 27.3 20.6 7  
 20 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 1 11 15.5 91.9 20.6 27.3 20.6 7  
 25 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 1 11 18.6 91.9 20.6 27.3 20.6 7  
 30 km/hr B75.2096.809.0009.000 20 1 2 1  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010  
 .010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010





1  
 TAcIDES(JICA) Yr2011 3/4 Taxi(L)  
 2  
 1  
 3  
 4  
 2  
 1  
 1  
 1  
 1  
 1  
 1  
 1  
 4  
 3  
 1  
 1  
 2  
 0.000000.000000.000000.000000.000000.000000.000000.000000  
 0.032000.0785000.1519000.000000-0.24350-0.019500.000000-0.18490  
 0.032000.0785000.1519000.000000-0.24350-0.019500.000000-0.18490  
 0.032000.0785000.1519000.000000-0.24350-0.019500.000000-0.18490  
 0.000000.000000.000000.000000.000000.000000.000000.000000  
 -0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
 -0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
 -0.03890-0.001800.0017000.009700-0.020400.0009000.014500-0.05900  
 0.000000.000000.000000.000000.000000.000000.000000.000000  
 -0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
 -0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
 -0.003900.0024000.007500-0.00750-0.001900.0100000.0011000.009200  
 0.000000.000000.000000.000000.000000.000000.000000.000000  
 0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
 0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
 0.0767000.0444000.0297000.0000000.1198000.0438000.0073000.083900  
 0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.0000000  
 0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
 0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
 0.0299000.0258000.0188000.0015000.0258000.0057000.0003000.027000  
 0.0000000.0000000.0000000.0000000.0000000.0000000.0000000.0000000  
 0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
 0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
 0.0088000.0035000.0006000.0051000.0053000.0011000.0009000.004700  
 .430.000.000.000.070.155.178.167  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469  
 0.114690.114690.000000.000000.000000.000000.000000.000000.000000.000000  
 0.000000.000000.000000.000000.000000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.0000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.0000  
 0.1330.1210.1100.1000.0900.0820.0750.0680.0620.056  
 0.0520.0510.0000.0000.0000.0000.0000.0000.0000.000  
 0.0000.0000.0000.0000.0000





.010.010.010.010.010.010.010.010.010.010  
1 11 40.4 91.9 20.6 27.3 20.6 7  
65 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 43.5 91.9 20.6 27.3 20.6 7  
70 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 46.6 91.9 20.6 27.3 20.6 7  
75 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 49.7 91.9 20.6 27.3 20.6 7  
80 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 52.8 91.9 20.6 27.3 20.6 7  
85 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 55.9 91.9 20.6 27.3 20.6 7  
90 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 59.0 91.9 20.6 27.3 20.6 7  
95 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010  
1 11 62.1 91.9 20.6 27.3 20.6 7  
100 km/hr B75.2096.809.0009.000 20 1 2 1  
.010  
.010  
.010.010.010.010.010.010.010.010.010.010



1  
TAcIDES(JICA) Yr2011 4/4 LDDV/T, HDDV, MC  
1  
1  
3  
4  
2  
1  
1  
1  
1  
1  
1  
4  
3  
1  
1  
2  
. 430. 000. 000. 000. 070. 155. 178. 167  
0. 127550. 126980. 124090. 123870. 124810. 122880. 122880. 117490. 117420. 11469  
0. 114690. 114690. 110590. 110740. 111110. 105870. 110590. 108140. 105130. 10000  
0. 100000. 100000. 100000. 100000. 10000  
0. 201400. 175720. 154320. 136390. 121330. 108630. 097880. 088770. 081030. 07444  
0. 068830. 064050. 059990. 056550. 053650. 051230. 049240. 047630. 046370. 04543  
0. 045000. 045000. 045000. 045000. 04500  
0. 201400. 175720. 154320. 136390. 121330. 108630. 097880. 088770. 081030. 07444  
0. 068830. 064050. 059990. 056550. 053650. 051230. 049240. 047630. 046370. 04543  
0. 045000. 045000. 045000. 045000. 04500  
0. 201400. 175720. 154320. 136390. 121330. 108630. 097880. 088770. 081030. 07444  
0. 068830. 064050. 059990. 056550. 053650. 051230. 049240. 047630. 046370. 04543  
0. 045000. 045000. 045000. 045000. 04500  
0. 127550. 126980. 124090. 123870. 124810. 122880. 122880. 117490. 117420. 11469  
0. 114690. 114690. 110590. 110740. 111110. 105870. 110590. 108140. 105130. 10000  
0. 100000. 100000. 100000. 100000. 10000  
0. 201400. 175720. 154320. 136390. 121330. 108630. 097880. 088770. 081030. 07444  
0. 068830. 064050. 059990. 056550. 053650. 051230. 049240. 047630. 046370. 04543  
0. 045000. 045000. 045000. 045000. 04500  
0. 182110. 167670. 154370. 142130. 130860. 120480. 110930. 102130. 094030. 08657  
0. 079710. 073390. 067570. 062210. 057280. 052730. 048550. 044700. 041160. 03789  
0. 038000. 038000. 038000. 038000. 03800  
0. 047860. 044750. 041640. 038530. 035430. 032320. 029210. 026110. 023000. 01989  
0. 016780. 013680. 013680. 013680. 013680. 013680. 013680. 013680. 013680. 01368  
0. 013680. 013680. 013680. 013680. 01368  
0. 1780. 1240. 0900. 0670. 0510. 0410. 0330. 0270. 0230. 019  
0. 0170. 0180. 0110. 0090. 0310. 0390. 0420. 0470. 0640. 018  
0. 0120. 0130. 0100. 0080. 008  
0. 0950. 0850. 0760. 0670. 0600. 0530. 0470. 0420. 0370. 032  
0. 0280. 0220. 0180. 0140. 0400. 0570. 0530. 0420. 0350. 031  
0. 0190. 0210. 0130. 0090. 004  
0. 0950. 0850. 0760. 0670. 0600. 0530. 0470. 0420. 0370. 032  
0. 0280. 0220. 0180. 0140. 0400. 0570. 0530. 0420. 0350. 031  
0. 0190. 0210. 0130. 0090. 004  
0. 0950. 0850. 0760. 0670. 0600. 0530. 0470. 0420. 0370. 032  
0. 0280. 0220. 0180. 0140. 0400. 0570. 0530. 0420. 0350. 031  
0. 0190. 0210. 0130. 0090. 004  
0. 1780. 1240. 0900. 0670. 0510. 0410. 0330. 0270. 0230. 019  
0. 0170. 0180. 0110. 0090. 0310. 0390. 0420. 0470. 0640. 018  
0. 0120. 0130. 0100. 0080. 008  
0. 0950. 0850. 0760. 0670. 0600. 0530. 0470. 0420. 0370. 032  
0. 0280. 0220. 0180. 0140. 0400. 0570. 0530. 0420. 0350. 031  
0. 0190. 0210. 0130. 0090. 004  
0. 1820. 1270. 0920. 0680. 0530. 0410. 0330. 0280. 0230. 020  
0. 0170. 0140. 0100. 0130. 0390. 0540. 0480. 0370. 0320. 018  
0. 0120. 0130. 0100. 0080. 008  
0. 0830. 0750. 0680. 0620. 0560. 0500. 0460. 0410. 0380. 034  
0. 0310. 0270. 0200. 0210. 0390. 0500. 0530. 0440. 0340. 033  
0. 0240. 0250. 0190. 0150. 012  
25  
1 5 3 71 94 1. 8430 0. 0400 0. 0000  
1 5 3 95 95 1. 8430 0. 0400 0. 0000  
1 5 3 96 00 1. 6250 0. 0400 0. 0000  
1 5 3 01 03 1. 3190 0. 0300 0. 0000  
1 5 3 04 20 1. 1770 0. 0300 0. 0000  
1 6 3 71 94 2. 4890 0. 0800 0. 0000  
1 6 3 95 96 2. 4890 0. 0800 0. 0000  
1 6 3 97 00 1. 3560 0. 0300 0. 0000









1 MOBILE5a - (DATED 93085)  
 IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 11/26/2002 at 16:58:38

1TAcIDES(JICA) Yr2011 1/4 LDGV  
 MOBILE5a (26-Mar-93)

0 Replacement Tampering and Misfueling Rates Input by User:  
 0 Non-1/M Case

0 MYG1:pre1981

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0320	0.0767	0.0320	0.0767	0.0320	0.0767
Catalyst	0.0000	0.0000	0.0785	0.0444	0.0785	0.0444	0.0785	0.0444
Fuel Inlet	0.0000	0.0000	0.1519	0.0297	0.1519	0.0297	0.1519	0.0297
Other Misfueling	0.0000	0.0000	-0.1519	-0.0297	-0.1519	-0.0297	-0.1519	-0.0297
EGR System	0.0000	0.0000	-0.2435	0.1198	-0.2435	0.1198	-0.2435	0.1198
Evap Canister	0.0000	0.0000	-0.0195	0.0438	-0.0195	0.0438	-0.0195	0.0438
PCV System	0.0000	0.0000	0.0000	0.0073	0.0000	0.0073	0.0000	0.0073
Cap	0.0000	0.0000	-0.1849	0.0839	-0.1849	0.0839	-0.1849	0.0839
All Misfueling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

0 MYG2:1981-83

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0389	0.0299	-0.0389	0.0299	-0.0389	0.0299
Catalyst	0.0000	0.0000	-0.0018	0.0258	-0.0018	0.0258	-0.0018	0.0258
Fuel Inlet	0.0000	0.0000	0.0017	0.0188	0.0017	0.0188	0.0017	0.0188
Other Misfueling	0.0000	0.0000	0.0080	-0.0173	0.0080	-0.0173	0.0080	-0.0173
EGR System	0.0000	0.0000	-0.0204	0.0258	-0.0204	0.0258	-0.0204	0.0258
Evap Canister	0.0000	0.0000	0.0009	0.0057	0.0009	0.0057	0.0009	0.0057
PCV System	0.0000	0.0000	0.0145	0.0003	0.0145	0.0003	0.0145	0.0003
Cap	0.0000	0.0000	-0.0590	0.0270	-0.0590	0.0270	-0.0590	0.0270
All Misfueling	0.0000	0.0000	0.0097	0.0015	0.0097	0.0015	0.0097	0.0015

0 MYG2: 1984+

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0039	0.0088	-0.0039	0.0088	-0.0039	0.0088
Catalyst	0.0000	0.0000	0.0024	0.0035	0.0024	0.0035	0.0024	0.0035
Fuel Inlet	0.0000	0.0000	0.0075	0.0006	0.0075	0.0006	0.0075	0.0006
Other Misfueling	0.0000	0.0000	-0.0150	0.0045	-0.0150	0.0045	-0.0150	0.0045
EGR System	0.0000	0.0000	-0.0019	0.0053	-0.0019	0.0053	-0.0019	0.0053
Evap Canister	0.0000	0.0000	0.0100	0.0011	0.0100	0.0011	0.0100	0.0011
PCV System	0.0000	0.0000	0.0011	0.0009	0.0011	0.0009	0.0011	0.0009
Cap	0.0000	0.0000	0.0092	0.0047	0.0092	0.0047	0.0092	0.0047
All Misfueling	0.0000	0.0000	-0.0075	0.0051	-0.0075	0.0051	-0.0075	0.0051

0 I/M Case

0 MYG1:pre1981

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0615	0.0304	0.0615	0.0304	0.0615	0.0304
Catalyst	0.0000	0.0000	0.1037	0.0203	0.1037	0.0203	0.1037	0.0203
Fuel Inlet	0.0000	0.0000	0.1376	0.0210	0.1376	0.0210	0.1376	0.0210
Other Misfueling	0.0000	0.0000	0.2261	-0.0032	0.2261	-0.0032	0.2261	-0.0032
EGR System	0.0000	0.0000	0.0808	0.0114	0.0808	0.0114	0.0808	0.0114
Evap Canister	0.0000	0.0000	0.0695	0.0093	0.0695	0.0093	0.0695	0.0093
PCV System	0.0000	0.0000	-0.0156	0.0040	-0.0156	0.0040	-0.0156	0.0040
Cap	0.0000	0.0000	0.0471	0.0150	0.0471	0.0150	0.0471	0.0150
All Misfueling	0.0000	0.0000	-0.0885	0.0178	-0.0885	0.0178	-0.0885	0.0178



0 MYG2: 1981-83

+ 0

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000-0.0318	0.0148	0.0318	0.0148	0.0318	0.0148	0.0148
Catalyst	0.0000	0.0000-0.0062	0.0109	0.0062	0.0109	0.0062	0.0109	0.0109
Fuel Inlet	0.0000	0.0000-0.0201	0.0031	0.0201	0.0031	0.0201	0.0031	0.0031
Other Misfueling	0.0000	0.0000-0.0781	0.0167	0.0781	0.0167	0.0781	0.0167	0.0167
EGR System	0.0000	0.0000-0.0538	0.0000	0.0538	0.0000	0.0538	0.0000	0.0000
Evap Canister	0.0000	0.0000-0.0126	0.0128	0.0126	0.0128	0.0126	0.0128	0.0128
PCV System	0.0000	0.0000-0.0261	0.0079	0.0261	0.0079	0.0261	0.0079	0.0079
Cap	0.0000	0.0000-0.0314	0.0184	0.0314	0.0184	0.0314	0.0184	0.0184
All Misfueling	0.0000	0.0000-0.0580	0.0198	0.0580	0.0198	0.0580	0.0198	0.0198

0 MYG2: 1984+

+ 0

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000-0.0262	0.0164	0.0262	0.0164	0.0262	0.0164	0.0164
Catalyst	0.0000	0.0000-0.0006	0.0043	0.0006	0.0043	0.0006	0.0043	0.0043
Fuel Inlet	0.0000	0.0000-0.0122	0.0081	0.0122	0.0081	0.0122	0.0081	0.0081
Other Misfueling	0.0000	0.0000-0.0319	-0.0076	0.0319	-0.0076	0.0319	-0.0076	-0.0076
EGR System	0.0000	0.0000-0.0021	0.0027	0.0021	0.0027	0.0021	0.0027	0.0027
Evap Canister	0.0000	0.0000-0.0100	0.0011	0.0100	0.0011	0.0100	0.0011	0.0011
PCV System	0.0000	0.0000-0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cap	0.0000	0.0000-0.0092	0.0047	0.0092	0.0047	0.0092	0.0047	0.0047
All Misfueling	0.0000	0.0000-0.0197	0.0005	0.0197	0.0005	0.0197	0.0005	0.0005

0 Emission Factor Modification Profile

+ 0

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	50K DR	Altered
1	1	1	3	1971	1994	3.44	0.00	0.00	Yes
2	1	1	3	1995	1995	0.50	0.08	0.22	Yes
3	1	1	3	1996	1998	0.21	0.08	0.19	Yes
4	1	1	3	1999	2003	0.13	0.08	0.19	Yes
5	1	1	3	2004	2007	0.09	0.08	0.19	Yes
6	1	1	3	2008	2020	0.08	0.08	0.19	Yes

01/M program selected:

0 Start year (January 1): 1997

Pre-1981 MYR stringency rate: 25%

First model year covered: 1960

Last model year covered: 2020

Waiver rate (pre-1981): 3.%

Waiver rate (1981 and newer): 3.%

Compliance Rate: 96.%

Inspection type: Test Only

Inspection frequency: Annual

Vehicle types covered: LDGV - Yes  
LDGT1 - No  
LDGT2 - No  
HDGV - No

1981 & later MYR test type: Idle

Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000

0 Replacement Diesel Sales Fractions Input by User:

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
2007	2008	2009	2010	2011						
LDDV:	0.010	0.010	0.010	0.010	0.010					
LDDT:	0.010	0.010	0.010	0.010	0.010					

0 Total HC emission factors include evaporative HC emission factors.

0 Emission factors are as of July 1st of the indicated calendar year.

0 User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0 Cal. Year: 2011 Region: Low Altitude: 500. Ft.



	I/M Program: Yes	Ambient Temp: 92.0 (F)
	Anti-tam. Program: No	Operating Mode: 20.6 / 27.3 / 20.6
	Reformulated Gas: No	
05 km/hr		
	Minimum Temp: 75. (F)	Maximum Temp: 97. (F)
	Period 1 RVP: 9.0	Period 2 RVP: 9.0 Period 2 Yr: 2020
OVeh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		
Veh. Spd.:	3.1 3.1 3.1	3.1 3.1 3.1 3.1 3.1
VMT Mix:	0.430 0.000 0.000	0.000 0.070 0.155 0.178 0.167
OComposite Emission Factors (Gm/Mile)		
Exhst NOX:	2.82 0.00 0.00 0.00	0.00 2.02 2.30 12.48 0.81 4.07
OEmission factors are as of July 1st of the indicated calendar year.		
OUser supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.		
OCal. Year: 2011	Region: Low	Altitude: 500. Ft.
	I/M Program: Yes	Ambient Temp: 92.0 (F)
	Anti-tam. Program: No	Operating Mode: 20.6 / 27.3 / 20.6
	Reformulated Gas: No	
010 km/hr		
	Minimum Temp: 75. (F)	Maximum Temp: 97. (F)
	Period 1 RVP: 9.0	Period 2 RVP: 9.0 Period 2 Yr: 2020
OVeh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		
Veh. Spd.:	6.2 6.2 6.2	6.2 6.2 6.2 6.2 6.2
VMT Mix:	0.430 0.000 0.000	0.000 0.070 0.155 0.178 0.167
OComposite Emission Factors (Gm/Mile)		
Exhst NOX:	2.35 0.00 0.00 0.00	0.00 1.78 2.02 10.98 0.72 3.52
OEmission factors are as of July 1st of the indicated calendar year.		
OUser supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.		
OCal. Year: 2011	Region: Low	Altitude: 500. Ft.
	I/M Program: Yes	Ambient Temp: 92.0 (F)
	Anti-tam. Program: No	Operating Mode: 20.6 / 27.3 / 20.6
	Reformulated Gas: No	
015 km/hr		
	Minimum Temp: 75. (F)	Maximum Temp: 97. (F)
	Period 1 RVP: 9.0	Period 2 RVP: 9.0 Period 2 Yr: 2020
OVeh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		
Veh. Spd.:	9.3 9.3 9.3	9.3 9.3 9.3 9.3 9.3
VMT Mix:	0.430 0.000 0.000	0.000 0.070 0.155 0.178 0.167
OComposite Emission Factors (Gm/Mile)		
Exhst NOX:	2.19 0.00 0.00 0.00	0.00 1.59 1.80 9.79 0.68 3.19
OEmission factors are as of July 1st of the indicated calendar year.		
OUser supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.		
OCal. Year: 2011	Region: Low	Altitude: 500. Ft.
	I/M Program: Yes	Ambient Temp: 92.0 (F)
	Anti-tam. Program: No	Operating Mode: 20.6 / 27.3 / 20.6
	Reformulated Gas: No	
020 km/hr		
	Minimum Temp: 75. (F)	Maximum Temp: 97. (F)
	Period 1 RVP: 9.0	Period 2 RVP: 9.0 Period 2 Yr: 2020
OVeh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		
Veh. Spd.:	12.4 12.4 12.4	12.4 12.4 12.4 12.4 12.4
VMT Mix:	0.430 0.000 0.000	0.000 0.070 0.155 0.178 0.167
OComposite Emission Factors (Gm/Mile)		
Exhst NOX:	2.11 0.00 0.00 0.00	0.00 1.43 1.63 8.85 0.67 2.95
OEmission factors are as of July 1st of the indicated calendar year.		
OUser supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.		
OCal. Year: 2011	Region: Low	Altitude: 500. Ft.
	I/M Program: Yes	Ambient Temp: 92.0 (F)
	Anti-tam. Program: No	Operating Mode: 20.6 / 27.3 / 20.6
	Reformulated Gas: No	
025 km/hr		
	Minimum Temp: 75. (F)	Maximum Temp: 97. (F)
	Period 1 RVP: 9.0	Period 2 RVP: 9.0 Period 2 Yr: 2020
OVeh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		



Veh. Spd.:	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167
OComposite Emission Factors (Gm/Mile)								
Exhst NOX:	2.06	0.00	0.00	0.00	0.00	1.31	1.49	0.70 2.77

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 30 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.03	0.00	0.00	0.00	0.00	1.22	1.39	7.53	0.73 2.64

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 35 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.06	0.00	0.00	0.00	0.00	1.15	1.31	7.10	0.78 2.56

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 40 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.09	0.00	0.00	0.00	0.00	1.10	1.25	6.77	0.83 2.51

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 45 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.11	0.00	0.00	0.00	0.00	1.06	1.20	6.55	0.88 2.48

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.



0Cal. Year: 2011                      Region: Low                      Altitude: 500. Ft.  
    I/M Program: Yes                      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

050 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	31.1	31.1	31.1		31.1	31.1	31.1	31.1	31.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.13	0.00	0.00	0.00	0.00	1.04	1.18	6.43	0.92	2.47

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                      Region: Low                      Altitude: 500. Ft.  
    I/M Program: Yes                      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

055 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	34.2	34.2	34.2		34.2	34.2	34.2	34.2	34.2	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.15	0.00	0.00	0.00	0.00	1.04	1.18	6.40	0.95	2.47

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                      Region: Low                      Altitude: 500. Ft.  
    I/M Program: Yes                      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

060 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	37.3	37.3	37.3		37.3	37.3	37.3	37.3	37.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.16	0.00	0.00	0.00	0.00	1.04	1.19	6.45	0.98	2.50

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                      Region: Low                      Altitude: 500. Ft.  
    I/M Program: Yes                      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

065 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	40.4	40.4	40.4		40.4	40.4	40.4	40.4	40.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.17	0.00	0.00	0.00	0.00	1.07	1.21	6.60	1.00	2.54

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                      Region: Low                      Altitude: 500. Ft.  
    I/M Program: Yes                      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

070 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										



+

Veh. Spd.:	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.18	0.00	0.00	0.00	0.00	1.11	1.26	6.84	1.02 2.60

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

075 km/hr

Minimum Temp: 75. (F)		Maximum Temp: 97. (F)								
Period 1 RVP: 9.0		Period 2 RVP: 9.0								
		Period 2 Yr: 2020								
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	
VMT Mix:	0.430	0.000	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.19	0.00	0.00	0.00	0.00	1.16	1.32	7.18	1.03	2.68

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

080 km/hr

Minimum Temp: 75. (F)		Maximum Temp: 97. (F)								
Period 1 RVP: 9.0		Period 2 RVP: 9.0								
		Period 2 Yr: 2020								
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
VMT Mix:	0.430	0.000	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.30	0.00	0.00	0.00	0.00	1.24	1.41	7.65	1.10	2.84

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

085 km/hr

Minimum Temp: 75. (F)		Maximum Temp: 97. (F)								
Period 1 RVP: 9.0		Period 2 RVP: 9.0								
		Period 2 Yr: 2020								
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
VMT Mix:	0.430	0.000	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.50	0.00	0.00	0.00	0.00	1.34	1.52	8.26	1.21	3.07

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

090 km/hr

Minimum Temp: 75. (F)		Maximum Temp: 97. (F)								
Period 1 RVP: 9.0		Period 2 RVP: 9.0								
		Period 2 Yr: 2020								
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	
VMT Mix:	0.430	0.000	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.69	0.00	0.00	0.00	0.00	1.46	1.66	9.04	1.31	3.35

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates,





mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

095 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	2.89	0.00	0.00	0.00	0.00	1.63	1.85	10.04	1.42	3.67

Emission factors are as of July 1st of the indicated calendar year.

User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

0100 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	3.09	0.00	0.00	0.00	0.00	1.83	2.08	11.29	1.52	4.04



1

MOBILE5a - (DATED 93085)

IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 11/26/2002 at 16:58:39

1TAcidES(JICA) Yr2011 2/4 Taxi(G)  
 MOBILE5a (26-Mar-93)

0Replacement Tampering and Misfueling Rates Input by User:  
 0 Non-I/M Case

+

0

MYG1:pre1981

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

+

0

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0320	0.0767	0.0320	0.0767	0.0320	0.0767
Catalyst	0.0000	0.0000	0.0785	0.0444	0.0785	0.0444	0.0785	0.0444
Fuel Inlet	0.0000	0.0000	0.1519	0.0297	0.1519	0.0297	0.1519	0.0297
Other Misfueling	0.0000	0.0000	-0.1519	-0.0297	-0.1519	-0.0297	-0.1519	-0.0297
EGR System	0.0000	0.0000	-0.2435	0.1198	-0.2435	0.1198	-0.2435	0.1198
Evap Canister	0.0000	0.0000	-0.0195	0.0438	-0.0195	0.0438	-0.0195	0.0438
PCV System	0.0000	0.0000	0.0000	0.0073	0.0000	0.0073	0.0000	0.0073
Cap	0.0000	0.0000	-0.1849	0.0839	-0.1849	0.0839	-0.1849	0.0839
All Misfueling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MYG2:1981-83

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0389	0.0299	-0.0389	0.0299	-0.0389	0.0299
Catalyst	0.0000	0.0000	-0.0018	0.0258	-0.0018	0.0258	-0.0018	0.0258
Fuel Inlet	0.0000	0.0000	0.0017	0.0188	0.0017	0.0188	0.0017	0.0188
Other Misfueling	0.0000	0.0000	0.0080	-0.0173	0.0080	-0.0173	0.0080	-0.0173
EGR System	0.0000	0.0000	-0.0204	0.0258	-0.0204	0.0258	-0.0204	0.0258
Evap Canister	0.0000	0.0000	0.0009	0.0057	0.0009	0.0057	0.0009	0.0057
PCV System	0.0000	0.0000	0.0145	0.0003	0.0145	0.0003	0.0145	0.0003
Cap	0.0000	0.0000	-0.0590	0.0270	-0.0590	0.0270	-0.0590	0.0270
All Misfueling	0.0000	0.0000	0.0097	0.0015	0.0097	0.0015	0.0097	0.0015

MYG2:1984+

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0039	0.0088	-0.0039	0.0088	-0.0039	0.0088
Catalyst	0.0000	0.0000	0.0024	0.0035	0.0024	0.0035	0.0024	0.0035
Fuel Inlet	0.0000	0.0000	0.0075	0.0006	0.0075	0.0006	0.0075	0.0006
Other Misfueling	0.0000	0.0000	-0.0150	0.0045	-0.0150	0.0045	-0.0150	0.0045
EGR System	0.0000	0.0000	-0.0019	0.0053	-0.0019	0.0053	-0.0019	0.0053
Evap Canister	0.0000	0.0000	0.0100	0.0011	0.0100	0.0011	0.0100	0.0011
PCV System	0.0000	0.0000	0.0011	0.0009	0.0011	0.0009	0.0011	0.0009
Cap	0.0000	0.0000	0.0092	0.0047	0.0092	0.0047	0.0092	0.0047
All Misfueling	0.0000	0.0000	-0.0075	0.0051	-0.0075	0.0051	-0.0075	0.0051

I/M Case

MYG1:pre1981

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0615	0.0304	0.0615	0.0304	0.0615	0.0304
Catalyst	0.0000	0.0000	0.1037	0.0203	0.1037	0.0203	0.1037	0.0203
Fuel Inlet	0.0000	0.0000	0.1376	0.0210	0.1376	0.0210	0.1376	0.0210
Other Misfueling	0.0000	0.0000	-0.2261	-0.0032	-0.2261	-0.0032	-0.2261	-0.0032
EGR System	0.0000	0.0000	0.0808	0.0114	0.0808	0.0114	0.0808	0.0114
Evap Canister	0.0000	0.0000	0.0695	0.0093	0.0695	0.0093	0.0695	0.0093
PCV System	0.0000	0.0000	-0.0156	0.0040	-0.0156	0.0040	-0.0156	0.0040
Cap	0.0000	0.0000	0.0471	0.0150	0.0471	0.0150	0.0471	0.0150
All Misfueling	0.0000	0.0000	-0.0885	0.0178	-0.0885	0.0178	-0.0885	0.0178



0 MYG2: 1981-83

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000-0.0318	0.0148	0.0318	0.0148	0.0318	0.0148	0.0318
Catalyst	0.0000	0.0000-0.0062	0.0109	0.0062	0.0109	0.0062	0.0109	0.0062
Fuel Inlet	0.0000	0.0000 0.0201	0.0031	0.0201	0.0031	0.0201	0.0031	0.0201
Other Misfueling	0.0000	0.0000-0.0781	0.0167	0.0781	0.0167	0.0781	0.0167	0.0781
EGR System	0.0000	0.0000 0.0538	0.0000	0.0538	0.0000	0.0538	0.0000	0.0538
Evap Canister	0.0000	0.0000-0.0126	0.0128	0.0126	0.0128	0.0126	0.0128	0.0126
PCV System	0.0000	0.0000-0.0261	0.0079	0.0261	0.0079	0.0261	0.0079	0.0261
Cap	0.0000	0.0000-0.0314	0.0184	0.0314	0.0184	0.0314	0.0184	0.0314
All Misfueling	0.0000	0.0000-0.0580	0.0198	0.0580	0.0198	0.0580	0.0198	0.0580

0 MYG2: 1984+

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000-0.0262	0.0164	0.0262	0.0164	0.0262	0.0164	0.0262
Catalyst	0.0000	0.0000 0.0006	0.0043	0.0006	0.0043	0.0006	0.0043	0.0006
Fuel Inlet	0.0000	0.0000-0.0122	0.0081	0.0122	0.0081	0.0122	0.0081	0.0122
Other Misfueling	0.0000	0.0000 0.0319	-0.0076	0.0319	-0.0076	0.0319	-0.0076	0.0319
EGR System	0.0000	0.0000-0.0021	0.0027	0.0021	0.0027	0.0021	0.0027	0.0021
Evap Canister	0.0000	0.0000 0.0100	0.0011	0.0100	0.0011	0.0100	0.0011	0.0100
PCV System	0.0000	0.0000 0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Cap	0.0000	0.0000 0.0092	0.0047	0.0092	0.0047	0.0092	0.0047	0.0092
All Misfueling	0.0000	0.0000 0.0197	0.0005	0.0197	0.0005	0.0197	0.0005	0.0197

0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	50K DR	Altered
1	1	1	3	1971	1994	3.44	0.00	0.00	Yes
2	1	1	3	1995	1995	0.50	0.08	0.22	Yes
3	1	1	3	1996	1998	0.21	0.08	0.19	Yes
4	1	1	3	1999	2003	0.13	0.08	0.19	Yes
5	1	1	3	2004	2007	0.09	0.08	0.19	Yes
6	1	1	3	2008	2020	0.08	0.08	0.19	Yes

01/M program selected:

0 Start year (January 1): 1997  
 Pre-1981 MYR stringency rate: 25%  
 First model year covered: 1960  
 Last model year covered: 2020  
 Waiver rate (pre-1981): 3. %  
 Waiver rate (1981 and newer): 3. %  
 Compliance Rate: 96. %  
 Inspection type: Test Only  
 Inspection frequency: Annual  
 Vehicle types covered: LDGV - Yes  
 LDGT1 - No  
 LDGT2 - No  
 HDGV - No

1981 & later MYR test type: Idle  
 Cutpoints, HC: 220.000 CO: 1.200 NOx: 999.000

0 Replacement Diesel Sales Fractions Input by User:

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	2007	2008	2009	2010	2011					
LDDV:	0.010	0.010	0.010	0.010	0.010					
LDDT:	0.010	0.010	0.010	0.010	0.010					

0 Total HC emission factors include evaporative HC emission factors.

0 Emission factors are as of July 1st of the indicated calendar year.  
 0 User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 0 Cal. Year: 2011 Region: Low Altitude: 500. Ft.



I/M Program: Yes      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

05 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0		Period 2 Yr: 2020			
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	3.1	3.1	3.1		3.1	3.1	3.1	3.1	3.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.29	0.00	0.00	0.00	0.00	1.76	2.03	11.07	0.81	3.09

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
 I/M Program: Yes      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

010 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0		Period 2 Yr: 2020			
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	6.2	6.2	6.2		6.2	6.2	6.2	6.2	6.2	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.07	0.00	0.00	0.00	0.00	1.55	1.78	9.73	0.72	2.70

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
 I/M Program: Yes      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

015 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0		Period 2 Yr: 2020			
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	9.3	9.3	9.3		9.3	9.3	9.3	9.3	9.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.00	0.00	0.00	0.00	0.00	1.38	1.59	8.68	0.68	2.43

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
 I/M Program: Yes      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

020 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0		Period 2 Yr: 2020			
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	12.4	12.4	12.4		12.4	12.4	12.4	12.4	12.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	0.96	0.00	0.00	0.00	0.00	1.25	1.44	7.85	0.67	2.23

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
 I/M Program: Yes      Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

025 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0		Period 2 Yr: 2020			
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										



Veh. Spd.:	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	0.94	0.00	0.00	0.00	0.00	1.14	1.32	7.19	0.70 2.08

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

030 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020				
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	0.93	0.00	0.00	0.00	0.00	1.06	1.22	6.68	0.73 1.97

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

035 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020				
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	0.94	0.00	0.00	0.00	0.00	1.00	1.15	6.29	0.78 1.90

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

040 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020				
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	0.95	0.00	0.00	0.00	0.00	0.95	1.10	6.00	0.83 1.85

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: Yes Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

045 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0 Period 2 Yr: 2020				
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	0.96	0.00	0.00	0.00	0.00	0.92	1.06	5.81	0.88 1.82

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.



0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

050 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 31.1 31.1 31.1      31.1 31.1 31.1 31.1 31.1  
 VMT Mix: 0.430 0.000 0.000      0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.97 0.00 0.00 0.00      0.00 0.90 1.04 5.70 0.92 1.81

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

055 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 34.2 34.2 34.2      34.2 34.2 34.2 34.2 34.2  
 VMT Mix: 0.430 0.000 0.000      0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.98 0.00 0.00 0.00      0.00 0.90 1.04 5.67 0.95 1.81

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

060 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 37.3 37.3 37.3      37.3 37.3 37.3 37.3 37.3  
 VMT Mix: 0.430 0.000 0.000      0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.98 0.00 0.00 0.00      0.00 0.91 1.05 5.72 0.98 1.83

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

065 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 40.4 40.4 40.4      40.4 40.4 40.4 40.4 40.4  
 VMT Mix: 0.430 0.000 0.000      0.000 0.070 0.155 0.178 0.167  
 0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.99 0.00 0.00 0.00      0.00 0.93 1.07 5.85 1.00 1.86

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

070 km/hr

                                 Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020  
 0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh



+										
Veh. Spd.:	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.99	0.00	0.00	0.00	0.96	1.11	6.06	1.02	1.92	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

075 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.00	0.00	0.00	0.00	1.01	1.17	6.37	1.03	1.99	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

080 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.05	0.00	0.00	0.00	1.08	1.24	6.78	1.10	2.11	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

085 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.14	0.00	0.00	0.00	1.16	1.34	7.32	1.21	2.28	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

090 km/hr

Minimum Temp: 75. (F)      Maximum Temp: 97. (F)										
Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020										
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9		
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.23	0.00	0.00	0.00	1.27	1.47	8.02	1.31	2.49	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates,



mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

095 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	59.0	59.0	59.0		59.0	59.0	59.0	59.0	59.0	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.31	0.00	0.00	0.00	0.00	1.41	1.63	8.90	1.42	2.74

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 0Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: Yes      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

0100 km/hr  
                                  Minimum Temp: 75. (F)      Maximum Temp: 97. (F)  
                                  Period 1 RVP: 9.0      Period 2 RVP: 9.0      Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:	62.1	62.1	62.1		62.1	62.1	62.1	62.1	62.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.40	0.00	0.00	0.00	0.00	1.59	1.83	10.01	1.52	3.03





1

MOBILE5a - (DATED 93085)

IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 10/25/2002 at 13:25:38

1TAcIDES(JICA) Yr2011 3/4 Taxi(L)  
 MOBILE5a (26-Mar-93)

OReplacement Tampering and Misfueling Rates Input by User:  
 0 Non-I/M Case

0 MYG1:pre1981

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	0.0320	0.0767	0.0320	0.0767	0.0320	0.0767
Catalyst	0.0000	0.0000	0.0785	0.0444	0.0785	0.0444	0.0785	0.0444
Fuel Inlet	0.0000	0.0000	0.1519	0.0297	0.1519	0.0297	0.1519	0.0297
Other Misfueling	0.0000	0.0000	-0.1519	-0.0297	-0.1519	-0.0297	-0.1519	-0.0297
EGR System	0.0000	0.0000	-0.2435	0.1198	-0.2435	0.1198	-0.2435	0.1198
Evap Canister	0.0000	0.0000	-0.0195	0.0438	-0.0195	0.0438	-0.0195	0.0438
PCV System	0.0000	0.0000	0.0000	0.0073	0.0000	0.0073	0.0000	0.0073
Cap	0.0000	0.0000	-0.1849	0.0839	-0.1849	0.0839	-0.1849	0.0839
All Misfueling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

0 MYG2:1981-83

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0389	0.0299	-0.0389	0.0299	-0.0389	0.0299
Catalyst	0.0000	0.0000	-0.0018	0.0258	-0.0018	0.0258	-0.0018	0.0258
Fuel Inlet	0.0000	0.0000	0.0017	0.0188	0.0017	0.0188	0.0017	0.0188
Other Misfueling	0.0000	0.0000	0.0080	-0.0173	0.0080	-0.0173	0.0080	-0.0173
EGR System	0.0000	0.0000	-0.0204	0.0258	-0.0204	0.0258	-0.0204	0.0258
Evap Canister	0.0000	0.0000	0.0009	0.0057	0.0009	0.0057	0.0009	0.0057
PCV System	0.0000	0.0000	0.0145	0.0003	0.0145	0.0003	0.0145	0.0003
Cap	0.0000	0.0000	-0.0590	0.0270	-0.0590	0.0270	-0.0590	0.0270
All Misfueling	0.0000	0.0000	0.0097	0.0015	0.0097	0.0015	0.0097	0.0015

0 MYG2:1984+

Component	LDGV		LDGT1		LDGT2		HDGV	
	ZML	DET	ZML	DET	ZML	DET	ZML	DET
Air Pump	0.0000	0.0000	-0.0039	0.0088	-0.0039	0.0088	-0.0039	0.0088
Catalyst	0.0000	0.0000	0.0024	0.0035	0.0024	0.0035	0.0024	0.0035
Fuel Inlet	0.0000	0.0000	0.0075	0.0006	0.0075	0.0006	0.0075	0.0006
Other Misfueling	0.0000	0.0000	-0.0150	0.0045	-0.0150	0.0045	-0.0150	0.0045
EGR System	0.0000	0.0000	-0.0019	0.0053	-0.0019	0.0053	-0.0019	0.0053
Evap Canister	0.0000	0.0000	0.0100	0.0011	0.0100	0.0011	0.0100	0.0011
PCV System	0.0000	0.0000	0.0011	0.0009	0.0011	0.0009	0.0011	0.0009
Cap	0.0000	0.0000	0.0092	0.0047	0.0092	0.0047	0.0092	0.0047
All Misfueling	0.0000	0.0000	-0.0075	0.0051	-0.0075	0.0051	-0.0075	0.0051

0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	50K DR	Altered
1	1	1	3	1971	2020	0.64	0.00	0.00	Yes

OReplacement Diesel Sales Fractions Input by User:

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
	2007	2008	2009	2010	2011					
LDDV:	0.010	0.010	0.010	0.010	0.010					



LDDT: 0.010 0.010 0.010 0.010 0.010										
0Total HC emission factors include evaporative HC emission factors.										
0Emission factors are as of July 1st of the indicated calendar year.										
0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.										
0Cal. Year: 2011 Region: Low Altitude: 500. Ft.										
I/M Program: No Ambient Temp: 92.0 (F)										
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6										
Reformulated Gas: No										
05 km/hr										
Minimum Temp: 75. (F) Maximum Temp: 97. (F)										
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020										
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh										
+										
Veh. Spd.: 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1										
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167										
0Composite Emission Factors (Gm/Mile)										
Exhst NOX: 1.06 0.00 0.00 0.00 0.00 1.76 2.03 11.07 0.81 3.00										
0Emission factors are as of July 1st of the indicated calendar year.										
0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.										
0Cal. Year: 2011 Region: Low Altitude: 500. Ft.										
I/M Program: No Ambient Temp: 92.0 (F)										
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6										
Reformulated Gas: No										
010 km/hr										
Minimum Temp: 75. (F) Maximum Temp: 97. (F)										
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020										
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh										
+										
Veh. Spd.: 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2										
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167										
0Composite Emission Factors (Gm/Mile)										
Exhst NOX: 0.88 0.00 0.00 0.00 0.00 1.55 1.78 9.73 0.72 2.62										
0Emission factors are as of July 1st of the indicated calendar year.										
0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.										
0Cal. Year: 2011 Region: Low Altitude: 500. Ft.										
I/M Program: No Ambient Temp: 92.0 (F)										
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6										
Reformulated Gas: No										
015 km/hr										
Minimum Temp: 75. (F) Maximum Temp: 97. (F)										
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020										
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh										
+										
Veh. Spd.: 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3										
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167										
0Composite Emission Factors (Gm/Mile)										
Exhst NOX: 0.82 0.00 0.00 0.00 0.00 1.38 1.59 8.68 0.68 2.35										
0Emission factors are as of July 1st of the indicated calendar year.										
0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.										
0Cal. Year: 2011 Region: Low Altitude: 500. Ft.										
I/M Program: No Ambient Temp: 92.0 (F)										
Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6										
Reformulated Gas: No										
020 km/hr										
Minimum Temp: 75. (F) Maximum Temp: 97. (F)										
Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020										
0Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh										
+										
Veh. Spd.: 12.4 12.4 12.4 12.4 12.4 12.4 12.4 12.4 12.4										
VMT Mix: 0.430 0.000 0.000 0.000 0.000 0.070 0.155 0.178 0.167										
0Composite Emission Factors (Gm/Mile)										
Exhst NOX: 0.79 0.00 0.00 0.00 0.00 1.25 1.44 7.85 0.67 2.16										
0Emission factors are as of July 1st of the indicated calendar year.										
0User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.										
0Cal. Year: 2011 Region: Low Altitude: 500. Ft.										
I/M Program: No Ambient Temp: 92.0 (F)										



Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

025 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	15.5	15.5	15.5		15.5	15.5	15.5	15.5	15.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.78	0.00	0.00	0.00	0.00	1.14	1.32	7.19	0.70	2.01

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

030 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	18.6	18.6	18.6		18.6	18.6	18.6	18.6	18.6	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.76	0.00	0.00	0.00	0.00	1.06	1.22	6.68	0.73	1.90

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

035 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	21.7	21.7	21.7		21.7	21.7	21.7	21.7	21.7	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.77	0.00	0.00	0.00	0.00	1.00	1.15	6.29	0.78	1.83

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

040 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	24.8	24.8	24.8		24.8	24.8	24.8	24.8	24.8	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.78	0.00	0.00	0.00	0.00	0.95	1.10	6.00	0.83	1.78

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
    I/M Program: No      Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

045 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	28.0	28.0	28.0		28.0	28.0	28.0	28.0	28.0	



VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.79 0.00 0.00 0.00 0.00 0.92 1.06 5.81 0.88 1.75

Emission factors are as of July 1st of the indicated calendar year.  
 User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

050 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 31.1 31.1 31.1 31.1 31.1 31.1 31.1 31.1 31.1  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.80 0.00 0.00 0.00 0.00 0.90 1.04 5.70 0.92 1.74

Emission factors are as of July 1st of the indicated calendar year.  
 User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

055 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 34.2 34.2 34.2 34.2 34.2 34.2 34.2 34.2 34.2  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.81 0.00 0.00 0.00 0.00 0.90 1.04 5.67 0.95 1.74

Emission factors are as of July 1st of the indicated calendar year.  
 User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

060 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3 37.3  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.81 0.00 0.00 0.00 0.00 0.91 1.05 5.72 0.98 1.76

Emission factors are as of July 1st of the indicated calendar year.  
 User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

065 km/hr  
 Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020  
 Veh. Type: LDGV LDGT1 LDGT2 LDGT HDGV LDDV LDDT HDDV MC All Veh  
 +  
 Veh. Spd.: 40.4 40.4 40.4 40.4 40.4 40.4 40.4 40.4 40.4  
 VMT Mix: 0.430 0.000 0.000 0.000 0.070 0.155 0.178 0.167  
 Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 0.82 0.00 0.00 0.00 0.00 0.93 1.07 5.85 1.00 1.79

Emission factors are as of July 1st of the indicated calendar year.  
 User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.  
 Cal. Year: 2011 Region: Low Altitude: 500. Ft.



I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

070 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	43.5	43.5	43.5		43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	0.96	1.11	6.06	1.02	1.84

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

075 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	46.6	46.6	46.6		46.6	46.6	46.6	46.6	46.6	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.82	0.00	0.00	0.00	0.00	1.01	1.17	6.37	1.03	1.91

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

080 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	49.7	49.7	49.7		49.7	49.7	49.7	49.7	49.7	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.86	0.00	0.00	0.00	0.00	1.08	1.24	6.78	1.10	2.03

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

085 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	52.8	52.8	52.8		52.8	52.8	52.8	52.8	52.8	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:	0.94	0.00	0.00	0.00	0.00	1.16	1.34	7.32	1.21	2.20

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.  
 O Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

090 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)					
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020		
OVeh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+										



Veh. Spd.:	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	1.01	0.00	0.00	0.00	1.27	1.47	8.02	1.31	2.40

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 95 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.08	0.00	0.00	0.00	1.41	1.63	8.90	1.42	2.64	

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied tampering and misfueling rates, basic exhaust emissions rates,  
 mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 100 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
+										
Veh. Spd.:	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
O Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.16	0.00	0.00	0.00	1.59	1.83	10.01	1.52	2.93	



1 MOBILE5a - (DATED 93085)  
 IBM-PC VERSION (1.00) MOBILE5a  
 (C) COPYRIGHT 1993, TRINITY CONSULTANTS, INC.  
 SERIAL NUMBER 8242 SOLD TO SECOT CO. LTD

Run Began on 11/27/2002 at 19:37:39

1TAcIDES(JICA) Yr2011 4/4 LDDV/T,HDDV,MC  
 MOBILE5a (26-Mar-93)

0 Emission Factor Modification Profile

+ Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	5	3	1971	1994	1.84	0.04	Yes
2	1	5	3	1995	1995	1.84	0.04	Yes
3	1	5	3	1996	2000	1.63	0.04	Yes
4	1	5	3	2001	2003	1.32	0.03	Yes
5	1	5	3	2004	2020	1.18	0.03	Yes
6	1	6	3	1971	1994	2.49	0.08	Yes
7	1	6	3	1995	1996	2.49	0.08	Yes
8	1	6	3	1997	2000	1.36	0.03	Yes
9	1	6	3	2001	2003	1.18	0.03	Yes
10	1	6	3	2004	2020	0.92	0.03	Yes
11	1	7	3	1971	1997	51.43	0.14	Yes
12	1	7	3	1998	1999	34.08	0.12	Yes
13	1	7	3	2000	2005	29.83	0.00	Yes
14	1	7	3	2006	2020	21.30	0.00	Yes
15	1	8	3	1971	1994	0.08	0.00	Yes
16	1	8	3	1995	1995	0.09	0.00	Yes
17	1	8	3	1996	1996	0.10	0.00	Yes
18	1	8	3	1997	1997	0.12	0.00	Yes
19	1	8	3	1998	1998	0.19	0.00	Yes
20	1	8	3	1999	1999	0.22	0.00	Yes
21	1	8	3	2000	2000	0.28	0.00	Yes
22	1	8	3	2001	2001	0.31	0.00	Yes
23	1	8	3	2002	2002	0.33	0.00	Yes
24	1	8	3	2003	2003	0.35	0.00	Yes
25	1	8	3	2004	2020	0.24	0.00	Yes

0Replacement Diesel Sales Fractions Input by User:

0	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
+ LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
+ LDDV:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
LDDT:	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0	2007	2008	2009	2010	2011					
+ LDDV:	0.010	0.010	0.010	0.010	0.010					
LDDT:	0.010	0.010	0.010	0.010	0.010					

0Total HC emission factors include evaporative HC emission factors.

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011 Region: Low Altitude: 500. Ft.  
 I/M Program: No Ambient Temp: 92.0 (F)  
 Anti-tam. Program: No Operating Mode: 20.6 / 27.3 / 20.6  
 Reformulated Gas: No

05 km/hr

Minimum Temp: 75. (F) Maximum Temp: 97. (F)  
 Period 1 RVP: 9.0 Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	3.1	3.1	3.1		3.1	3.1	3.1	3.1	3.1	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.67	0.00	0.00	0.00	0.00	2.90	2.52	46.67	0.21	10.08

0Emission factors are as of July 1st of the indicated calendar year.

0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011 Region: Low Altitude: 500. Ft.







Veh. Spd.:	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	1.92	0.00	0.00	0.00	0.00	1.75	1.52	28.17	0.19 6.23

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

035 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020	
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	1.94	0.00	0.00	0.00	0.00	1.65	1.43	26.53	0.20 5.93

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

040 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020	
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	1.97	0.00	0.00	0.00	0.00	1.58	1.37	25.33	0.21 5.71

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

045 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020	
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	1.99	0.00	0.00	0.00	0.00	1.52	1.32	24.49	0.23 5.57

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

050 km/hr

		Minimum Temp: 75. (F)			Maximum Temp: 97. (F)				
		Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020	
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC All Veh
+									
Veh. Spd.:	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.01	0.00	0.00	0.00	0.00	1.50	1.30	24.04	0.24 5.49

O Emission factors are as of July 1st of the indicated calendar year.

O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.



0Cal. Year: 2011                    Region: Low                    Altitude: 500. Ft.  
    I/M Program: No                    Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                    Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

055 km/hr

   Minimum Temp: 75. (F)                    Maximum Temp: 97. (F)  
    Period 1 RVP: 9.0                    Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	34.2	34.2	34.2		34.2	34.2	34.2	34.2	34.2	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	

0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.03   0.00   0.00   0.00   0.00   1.49   1.29   23.91   0.25   5.47

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                    Region: Low                    Altitude: 500. Ft.  
    I/M Program: No                    Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                    Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

060 km/hr

   Minimum Temp: 75. (F)                    Maximum Temp: 97. (F)  
    Period 1 RVP: 9.0                    Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	37.3	37.3	37.3		37.3	37.3	37.3	37.3	37.3	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	

0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.04   0.00   0.00   0.00   0.00   1.50   1.30   24.12   0.25   5.52

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                    Region: Low                    Altitude: 500. Ft.  
    I/M Program: No                    Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                    Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

065 km/hr

   Minimum Temp: 75. (F)                    Maximum Temp: 97. (F)  
    Period 1 RVP: 9.0                    Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	40.4	40.4	40.4		40.4	40.4	40.4	40.4	40.4	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	

0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.05   0.00   0.00   0.00   0.00   1.53   1.33   24.66   0.26   5.63

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                    Region: Low                    Altitude: 500. Ft.  
    I/M Program: No                    Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                    Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

070 km/hr

   Minimum Temp: 75. (F)                    Maximum Temp: 97. (F)  
    Period 1 RVP: 9.0                    Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	43.5	43.5	43.5		43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	

0Composite Emission Factors (Gm/Mile)  
 Exhst NOX: 2.06   0.00   0.00   0.00   0.00   1.59   1.38   25.56   0.26   5.80

0Emission factors are as of July 1st of the indicated calendar year.  
 0User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0Cal. Year: 2011                    Region: Low                    Altitude: 500. Ft.  
    I/M Program: No                    Ambient Temp: 92.0 (F)  
    Anti-tam. Program: No                    Operating Mode: 20.6 / 27.3 / 20.6  
    Reformulated Gas: No

075 km/hr

   Minimum Temp: 75. (F)                    Maximum Temp: 97. (F)  
    Period 1 RVP: 9.0                    Period 2 RVP: 9.0 Period 2 Yr: 2020

0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
+ Veh. Spd.:	43.5	43.5	43.5		43.5	43.5	43.5	43.5	43.5	
VMT Mix:	0.430	0.000	0.000		0.000	0.070	0.155	0.178	0.167	



+

Veh. Spd.:	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.07	0.00	0.00	0.00	0.00	1.67	1.45	26.86	0.27 6.06

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 80 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh

+

Veh. Spd.:	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.17	0.00	0.00	0.00	0.00	1.78	1.54	28.61	0.28 6.44

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 85 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh

+

Veh. Spd.:	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.36	0.00	0.00	0.00	0.00	1.92	1.67	30.89	0.31 6.96

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 90 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh

+

Veh. Spd.:	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.55	0.00	0.00	0.00	0.00	2.10	1.82	33.82	0.34 7.60

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

O Cal. Year: 2011      Region: Low      Altitude: 500. Ft.  
                                  I/M Program: No      Ambient Temp: 92.0 (F)  
                                  Anti-tam. Program: No      Operating Mode: 20.6 / 27.3 / 20.6  
                                  Reformulated Gas: No

O 95 km/hr

	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)						
	Period 1 RVP: 9.0			Period 2 RVP: 9.0			Period 2 Yr: 2020			
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh

+

Veh. Spd.:	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	2.73	0.00	0.00	0.00	0.00	2.34	2.02	37.53	0.37 8.39

O Emission factors are as of July 1st of the indicated calendar year.  
 O User supplied basic exhaust emissions rates, mileage accrual distributions,



veh registration distributions.											
Cal. Year: 2011	Region: Low			Altitude: 500. Ft.							
	I/M Program: No			Ambient Temp: 92.0 (F)							
	Anti-tam. Program: No			Operating Mode: 20.6 / 27.3 / 20.6							
	Reformulated Gas: No										
0100 km/hr											
	Minimum Temp: 75. (F)			Maximum Temp: 97. (F)							
	Period 1 RVP: 9.0			Period 2 RVP: 9.0				Period 2 Yr: 2020			
Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh	
+											
Veh. Spd.:	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167			
Composite Emission Factors (Gm/Mile)											
Exhst NOx:	2.92	0.00	0.00	0.00	0.00	2.63	2.28	42.22	0.39	9.37	



## 3.2 Chassis Dynamometer Test Data

Chassis Dynamometer Test Data, which were provided by PCD, are shown in the following tables.

Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
1	1993/6/20		1,954		3,400	TISI 1280-2538	3	33.6	1.333
2	1995/2/24		1,552		2,316	TISI 1120-2535	2	18.7	0.106
3	1995/3/4		1,527		2,237	TISI 1120-2535	2	18.7	2.750
4	1995/3/7		1,121		1,331	TISI 1120-2535	2	18.7	0.538
5	1995/3/18		1,670		2,381	TISI 1120-2535	2	18.7	0.052
6	1995/3/20		1,250		1,598	TISI 1120-2535	2	18.7	0.414
7	1995/3/20		1,275		1,840	TISI 1120-2535	2	18.7	0.277
8	1995/3/21		2,171		3,199	TISI 1120-2535	2	18.7	0.198
9	1995/3/29		1,505		2,164	TISI 1120-2535	2	18.7	0.296
10	1995/3/29		1,335		1,998	TISI 1120-2535	2	18.7	0.485
11	1995/3/30		1,810		3,969	TISI 1120-2535	2	18.7	0.087
12	1995/3/30		1,505		2,164	TISI 1120-2535	2	18.7	0.950
13	1995/3/30		1,961		2,959	TISI 1120-2535	2	18.7	0.126
14	1995/3/31		1,505		2,164	TISI 1120-2535	2	18.7	1.064
15	1995/4/3		1,652		2,959	TISI 1120-2535	2	18.7	0.279
16	1995/4/3		1,961		2,959	TISI 1120-2535	2	18.7	0.192
17	1995/4/4		1,573		1,998	TISI 1120-2535	2	18.7	1.862
18	1995/4/5		1,880		2,461	TISI 1120-2535	2	18.7	0.223
19	1995/4/7		2,267		3,199	TISI 1120-2535	2	18.7	0.317
20	1995/4/7		1,648		2,799	TISI 1120-2535	2	18.7	0.423
21	1995/4/10		1,573		1,998	TISI 1120-2535	2	18.7	1.842
22	1995/4/11		1,560		2,199	TISI 1120-2535	2	18.7	0.145
23	1995/4/11		1,533		1,799	TISI 1120-2535	2	18.7	0.273
24	1995/4/20		2,257		4,973	TISI 1120-2535	2	18.7	1.155
25	1995/4/21		2,089		2,799	TISI 1120-2535	2	18.7	0.123
26	1995/4/22		1,346		1,998	TISI 1120-2535	2	18.7	0.390
27	1995/4/22		1,505		2,164	TISI 1120-2535	2	18.7	0.893
28	1995/4/24		1,505		2,164	TISI 1120-2535	2	18.7	0.595
29	1995/4/26		1,674		2,381	TISI 1120-2535	2	18.7	0.047
30	1995/4/27		1,648		2,799	TISI 1120-2535	2	18.7	0.409
31	1995/4/27		1,505		2,164	TISI 1120-2535	2	18.7	0.906
32	1995/4/28		1,899		2,461	TISI 1120-2535	2	18.7	0.512
33	1995/4/28		1,674		2,381	TISI 1120-2535	2	18.7	0.021
34	1995/4/29		1,754		2,997	TISI 1120-2535	2	18.7	0.286
35	1995/4/29		1,546		1,994	TISI 1120-2535	2	18.7	0.121
36	1995/4/29		1,479		2,259	TISI 1120-2535	2	18.7	0.533
37	1995/5/3		1,573		1,998	TISI 1120-2535	2	18.7	1.511
38	1995/5/4		2,046		1,994	TISI 1120-2535	2	18.7	0.334
39	1995/5/4		1,579		2,675	TISI 1120-2535	2	18.7	0.301
40	1995/5/17		2,280		4,554	TISI 1120-2535	2	18.7	0.795
41	1995/5/17		2,029		3,947	TISI 1120-2535	2	18.7	0.009
42	1995/5/18		2,428		-	TISI 1120-2535	2	18.7	0.120
43	1995/5/18		1,573		1,998	TISI 1120-2535	2	18.7	1.552
44	1995/5/19		1,347		1,994	TISI 1120-2535	2	18.7	0.174
45	1995/5/19		1,674		2,381	TISI 1120-2535	2	18.7	0.066
46	1995/5/23		1,784		2,997	TISI 1120-2535	2	18.7	0.031
47	1995/5/24		1,674		2,381	TISI 1120-2535	2	18.7	0.055
48	1995/5/24		1,531		2,237	TISI 1120-2535	2	18.7	2.141
49	1995/5/25		1,646		1,994	TISI 1120-2535	2	18.7	0.173
50	1995/5/25		1,674		2,381	TISI 1120-2535	2	18.7	0.080
51	1995/5/29		794		1,275	TISI 1120-2535	2	18.7	0.207
52	1995/5/29		1,531		2,237	TISI 1120-2535	2	18.7	2.351
53	1995/5/31		2,232		5,735	TISI 1120-2535	2	18.7	0.106
54	1995/6/13		1,195		1,498	TISI 1120-2535	2	18.7	1.140

Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
55	1995/6/16		2,769		5,735	TISI 1120-2535	2	18.7	1.256
56	1995/6/19		2,769		5,735	TISI 1120-2535	2	18.7	1.117
57	1995/6/21		2,196		4,293	TISI 1120-2535	2	18.7	0.449
58	1995/6/22		1,137		1,502	TISI 1120-2535	2	18.7	0.636
59	1995/6/27		1,175		1,597	TISI 1120-2535	2	18.7	0.389
60	1995/6/27		1,098		1,098	TISI 1120-2535	2	18.7	1.712
61	1995/6/28		1,098		1,098	TISI 1120-2535	2	18.7	1.654
62	1995/6/28		1,444		1,952	TISI 1120-2535	2	18.7	2.010
63	1995/6/28		1,612		1,998	TISI 1120-2535	2	18.7	1.609
64	1995/6/29		1,137		1,502	TISI 1120-2535	2	18.7	0.674
65	1995/6/29		1,098		1,098	TISI 1120-2535	2	18.7	1.702
66	1995/6/29		1,444		1,952	TISI 1120-2535	2	18.7	1.758
67	1995/6/30		1,472		1,998	TISI 1120-2535	2	18.7	0.722
68	1995/6/30		1,444		1,952	TISI 1120-2535	2	18.7	1.782
69	1995/7/5		2,186		4,942	TISI 1120-2535	2	18.7	0.192
70	1995/7/6		2,186		4,942	TISI 1120-2535	2	18.7	0.192
71	1995/7/6		1,716		2,997	TISI 1120-2535	2	18.7	0.185
72	1995/7/7		2,186		4,942	TISI 1120-2535	2	18.7	0.264
73	1995/7/18		2,009		2,997	TISI 1120-2535	2	18.7	0.410
74	1995/7/19		2,009		2,997	TISI 1120-2535	2	18.7	0.405
75	1995/7/19		1,333		1,998	TISI 1120-2535	2	18.7	0.554
76	1995/7/20		1,547		3,496	TISI 1120-2535	2	18.7	0.280
77	1995/7/25		1,547		3,496	TISI 1120-2535	2	18.7	0.254
78	1995/8/1		1,938		4,916	TISI 1120-2535	2	18.7	0.404
79	1995/8/16		1,306		1,795	TISI 1120-2535	2	18.7	1.064
80	1995/8/17		1,306		1,795	TISI 1120-2535	2	18.7	1.051
81	1995/8/17		1,295		1,599	TISI 1120-2535	2	18.7	1.258
82	1995/8/18		1,306		1,795	TISI 1120-2535	2	18.7	1.150
83	1995/8/30		1,668		4,000	TISI 1120-2535	2	18.7	0.356
84	1995/8/30		1,768		4,000	TISI 1120-2535	2	18.7	0.356
85	1995/9/1		1,965		5,474	TISI 1120-2535	2	18.7	0.291
86	1995/9/4		1,454		1,796	TISI 1120-2535	2	18.7	0.202
87	1995/9/4		3,147		7,400	TISI 1120-2535	2	18.7	3.303
88	1995/9/5		1,454		1,796	TISI 1120-2535	2	18.7	0.220
89	1995/9/5		3,147		7,400	TISI 1120-2535	2	18.7	3.776
90	1995/9/6		1,454		1,796	TISI 1120-2535	2	18.7	0.264
91	08/9/95		1,334		1,970	TISI 1120-2535	2	18.7	0.164
92	1995/9/8		1,434		1,970	TISI 1120-2535	2	18.7	0.164
93	1995/9/19		1,757		3,300	TISI 1120-2535	2	18.7	0.376
94	1995/9/19		1,857		3,300	TISI 1120-2535	2	18.7	0.376
95	1995/9/19		1,627		3,500	TISI 1120-2535	2	18.7	0.868
96	1995/9/19		1,727		3,500	TISI 1120-2535	2	18.7	0.868
97	1995/9/22		1,261		3,164	TISI 1120-2535	2	18.7	0.228
98	1995/10/6		1,370		1,799	TISI 1120-2535	2	18.7	0.396
99	1995/10/6		1,501		2,959	TISI 1120-2535	2	18.7	0.329
100	1995/10/6		1,470		1,799	TISI 1120-2535	2	18.7	0.396
101	1995/10/6		1,601		2,959	TISI 1120-2535	2	18.7	0.329
102	1995/10/21		1,820		2,693	TISI 1120-2535	2	18.7	0.021
103	1995/10/26		1,659		4,943	TISI 1120-2535	2	18.7	0.489
104	1995/10/26		1,759		4,943	TISI 1120-2535	2	18.7	0.489
105	1995/10/26		1,443		1,988	TISI 1120-2535	2	18.7	1.300
106	1995/10/27		1,759		4,943	TISI 1120-2535	2	18.7	0.427
107	1995/10/31		1,252		1,998	TISI 1120-2535	2	18.7	0.057
108	1995/10/31		1,158		1,587	TISI 1120-2535	2	18.7	0.061

Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
109	1995/10/31		1,072		1,587	TISI 1120-2535	2	18.7	0.797
110	1995/10/31		1,352		1,998	TISI 1120-2535	2	18.7	0.057
111	1995/10/31		1,172		1,587	TISI 1120-2535	2	18.7	0.797
112	1995/10/31		1,352		1,998	TISI 1280-2538	3	33.6	0.229
113	1995/10/31		1,258		1,587	TISI 1280-2538	3	33.6	0.249
114	1995/11/1		1,072		1,587	TISI 1120-2535	2	18.7	0.787
115	1995/11/1		1,172		1,587	TISI 1120-2535	2	18.7	0.787
116	1995/11/3		1,158		1,587	TISI 1120-2535	2	18.7	0.085
117	1995/11/3		1,307		1,998	TISI 1120-2535	2	18.7	0.741
118	1995/11/3		1,407		1,998	TISI 1120-2535	2	18.7	0.741
119	1995/11/16		1,158		1,587	TISI 1120-2535	2	18.7	0.069
120	1995/11/16		1,258		1,587	TISI 1280-2538	3	33.6	0.281
121	1995/11/21		1,920		2,693	TISI 1120-2535	2	18.7	0.021
122	1995/11/28		1,645		5,000	TISI 1120-2535	2	18.7	0.103
123	1995/11/28		1,745		5,000	TISI 1120-2535	2	18.7	0.103
124	1995/11/28		1,745		5,000	TISI 1120-2535	2	18.7	0.103
125	1995/12/25		1,684		2,922	TISI 1120-2535	2	18.7	0.038
126	1995/12/25		1,584		2,922	TISI 1280-2538	3	33.6	0.155
127	25/12/95		1,446		2,319	TISI 1280-2538	3	33.6	0.106
128	25/12/95		1,546		2,319	TISI 1280-2538	3	33.6	0.106
129	1995/12/26		1,273		1,998	TISI 1120-2535	2	18.7	0.069
130	1995/12/26		925		1,300	TISI 1120-2535	2	18.7	1.023
131	1995/12/26		1,025		1,300	TISI 1120-2535	2	18.7	1.023
132	1995/12/27		1,140		1,498	TISI 1120-2535	2	18.7	0.604
133	1995/12/27		1,140		1,498	TISI 1120-2535	2	18.7	0.604
134	27/12/95		1,172		1,587	TISI 1280-2538	3	33.6	0.420
135	27/12/95		1,172		1,587	TISI 1280-2538	3	33.6	0.420
136	28/12/95		1,140		1,498	TISI 1280-2538	3	33.6	0.246
137	28/12/95		1,172		1,587	TISI 1280-2538	3	33.6	0.376
138	28/12/95		1,140		1,498	TISI 1280-2538	3	33.6	0.246
139	28/12/95		1,172		1,587	TISI 1280-2538	3	33.6	0.376
140	29/12/95		1,140		1,498	TISI 1280-2538	3	33.6	0.293
141	29/12/95		1,140		1,498	TISI 1280-2538	3	33.6	0.293
142	30/12/95		1,140		1,498	TISI 1280-2538	3	33.6	0.325
143	08/1/96		1,140		1,498	TISI 1280-2538	3	33.6	0.325
144	1996/1/9		1,557		1,770	TISI 1120-2535	2	18.7	4.050
145	1996/1/10		1,093		1,588	TISI 1120-2535	2	18.7	0.319
146	1996/1/10		1,300		2,174	TISI 1120-2535	2	18.7	0.198
147	1996/1/10		1,557		2,300	TISI 1120-2535	2	18.7	0.127
148	1996/1/10		1,193		1,193	TISI 1120-2535	2	18.7	0.319
149	1996/1/10		1,400		2,174	TISI 1120-2535	2	18.7	0.198
150	10/1/96		1,657		2,300	TISI 1280-2538	3	33.6	0.516
151	1996/1/16		847		797	TISI 1120-2535	2	18.7	2.933
152	16/1/96		1,571		2,381	TISI 1280-2538	3	33.6	0.083
153	16/1/96		1,462		2,316	TISI 1280-2538	3	33.6	0.054
154	16/1/96		1,671		2,381	TISI 1280-2538	3	33.6	0.083
155	16/1/96		1,562		2,316	TISI 1280-2538	3	33.6	0.054
156	1996/1/17		2,242		6,750	TISI 1120-2535	2	18.7	0.479
157	17/1/96		1,462		2,316	TISI 1280-2538	3	33.6	0.056
158	17/1/96		1,562		2,316	TISI 1280-2538	3	33.6	0.056
159	18/1/96		1,777		3,200	TISI 1120-2535	2	18.7	0.244
160	1996/1/18		1,877		3,200	TISI 1120-2535	2	18.7	0.244
161	1996/1/19		1,436		2,200	TISI 1120-2535	2	18.7	0.315
162	20/1/96		1,627		2,319	TISI 1280-2538	3	33.6	0.101



Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd_kmh	NOx_g/km
163	20/1/96		1,627		2,319	TISI 1280-2538	3	33.6	0.101
164	1996/1/22		1,822		2,972	TISI 1120-2535	2	18.7	0.362
165	1996/1/22		1,822		2,972	TISI 1120-2535	2	18.7	0.362
166	24/1/96		1,433		2,199	TISI 1120-2535	2	18.7	0.019
167	1996/1/24		1,533		2,199	TISI 1120-2535	2	18.7	0.197
168	24/1/96		1,433		2,199	TISI 1280-2538	3	33.6	0.076
169	1996/1/24		1,533		2,199	TISI 1280-2538	3	33.6	0.076
170	1996/1/25		1,573		5,707	TISI 1120-2535	2	18.7	0.321
171	1996/1/25		1,673		5,707	TISI 1120-2535	2	18.7	0.321
172	1996/1/31		2,024		3,200	TISI 1120-2535	2	18.7	0.288
173	1996/1/31		1,434		2,000	TISI 1120-2535	2	18.7	0.511
174	1996/1/31		1,426		1,984	TISI 1120-2535	2	18.7	0.236
175	1996/1/31		1,534		2,000	TISI 1120-2535	2	18.7	0.511
176	1996/1/31		1,526		1,984	TISI 1120-2535	2	18.7	0.236
177	1996/2/2		1,980		2,800	TISI 1120-2535	2	18.7	0.320
178	1996/2/13		1,158		1,587	TISI 1120-2535	2	18.7	0.082
179	1996/2/14		1,977		2,800	TISI 1120-2535	2	18.7	0.202
180	1996/2/15		2,416		6,750	TISI 1120-2535	2	18.7	0.271
181	1996/2/15		1,782		4,000	TISI 1120-2535	2	18.7	0.805
182	1996/2/16		1,782		4,000	TISI 1120-2535	2	18.7	0.539
183	1996/2/16		2,199		4,973	TISI 1120-2535	2	18.7	0.259
184	1996/2/16		2,029		2,438	TISI 1120-2535	2	18.7	0.125
185	1996/2/16		2,029		2,438	TISI 1120-2535	2	18.7	0.125
186	1996/2/21		2,251		2,300	TISI 1120-2535	2	18.7	0.255
187	1996/2/21		2,251		2,300	TISI 1120-2535	2	18.7	0.255
188	1996/2/22		1,421			TISI 1120-2535	2	18.7	0.250
189	1996/2/22		2,169		4,973	TISI 1120-2535	2	18.7	0.432
190	1996/2/23		1,421			TISI 1120-2535	2	18.7	0.258
191	1996/2/27		1,206		1,597	TISI 1280-2538	3	33.6	0.228
192	1996/2/28		2,109		4,973	TISI 1120-2535	2	18.7	1.147
193	05/3/96		829		660	TISI 1280-2538	3	33.6	4.990
194	05/3/96		829		660	TISI 1280-2538	3	33.6	4.990
195	07/3/96		1,825		3,969	TISI 1280-2538	3	33.6	0.049
196	07/3/96		1,353		2,164	TISI 1280-2538	3	33.6	0.127
197	07/3/96		1,825		3,969	TISI 1280-2538	3	33.6	0.049
198	07/3/96		1,353		2,164	TISI 1280-2538	3	33.6	0.127
199	1996/3/12		1,967		3,200	TISI 1120-2535	2	18.7	0.352
200	12/3/96		2,117		3,199	TISI 1280-2538	3	33.6	0.151
201	12/3/96		1,495		1,799	TISI 1280-2538	3	33.6	0.110
202	1996/3/12		2,117		3,199	TISI 1280-2538	3	33.6	0.151
203	12/3/96		1,495		1,799	TISI 1280-2538	3	33.6	0.110
204	1996/3/13		2,002		2,800	TISI 1120-2535	2	18.7	0.404
205	13/3/96		2,117		3,199	TISI 1280-2538	3	33.6	0.156
206	1996/3/13		2,117		3,199	TISI 1280-2538	3	33.6	0.156
207	1996/3/14		1,545		2,000	TISI 1120-2535	2	18.7	0.412
208	14/3/96		2,117		3,199	TISI 1280-2538	3	33.6	0.105
209	1996/3/15		2,117		3,199	TISI 1280-2538	3	33.6	0.105
210	1996/3/19		1,839		5,000	TISI 1120-2535	2	18.7	0.296
211	19/3/96		1,716		2,394	TISI 1280-2538	3	33.6	0.124
212	19/3/96		1,434		1,796	TISI 1280-2538	3	33.6	0.071
213	19/3/96		1,716		2,394	TISI 1280-2538	3	33.6	0.124
214	19/3/96		1,434		1,796	TISI 1280-2538	3	33.6	0.071
215	20/3/96		1,280		1,580	TISI 1280-2538	3	33.6	0.273
216	20/3/96		1,351		1,998	TISI 1280-2538	3	33.6	0.182

Table 3.2 Chassis Dynamometer Test Data (LDGV)

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
217	20/3/96		2,019		2,997	TISI 1280-2538	3	33.6	0.189
218	20/3/96		1,434		1,796	TISI 1280-2538	3	33.6	0.056
219	20/3/96		1,140		1,498	TISI 1280-2538	3	33.6	0.438
220	20/3/96		1,172		1,588	TISI 1280-2538	3	33.6	0.367
221	20/3/96		1,280		1,580	TISI 1280-2538	3	33.6	0.273
222	20/3/96		1,351		1,998	TISI 1280-2538	3	33.6	0.182
223	20/3/96		2,019		2,997	TISI 1280-2538	3	33.6	0.189
224	20/3/96		1,434		1,796	TISI 1280-2538	3	33.6	0.056
225	20/3/96		1,140		1,498	TISI 1280-2538	3	33.6	0.438
226	20/3/96		1,172		1,587	TISI 1280-2538	3	33.6	0.367
227	1996/3/21		1,879			TISI 1120-2535	2	18.7	0.568
228	1996/3/21		1,427			TISI 1120-2535	2	18.7	0.310
229	22/3/96		1,551		3,496	TISI 1280-2538	3	33.6	0.213
230	22/3/96		1,551		3,496	TISI 1280-2538	3	33.6	0.213
231	1996/3/25		1,976		2,800	TISI 1120-2535	2	18.7	0.251
232	1996/3/25		1,960		2,799	TISI 1120-2535	2	18.7	0.356
233	1996/3/25		1,976		2,799	TISI 1120-2535	2	18.7	0.251
234	25/3/96		1,551		3,496	TISI 1280-2538	3	33.6	0.221
235	25/3/96		1,551		3,496	TISI 1280-2538	3	33.6	0.221
236	1996/3/26		1,976		2,800	TISI 1120-2535	2	18.7	0.329
237	1996/3/26		1,976		2,799	TISI 1120-2535	2	18.7	0.329
238	1996/3/27		1,976		2,800	TISI 1120-2535	2	18.7	0.350
239	1996/3/27		1,976		2,799	TISI 1120-2535	2	18.7	0.350
240	27/3/96		1,206		1,597	TISI 1280-2538	3	33.6	0.228
241	1996/4/4		2,117		5,000	TISI 1120-2535	2	18.7	0.332
242	1996/4/4		2,117		5,000	TISI 1120-2535	2	18.7	0.404
243	1996/4/5		2,117		5,000	TISI 1120-2535	2	18.7	0.341
244	1996/4/5		2,117		5,000	TISI 1120-2535	2	18.7	0.482
245	1996/4/9		2,117		5,000	TISI 1120-2535	2	18.7	0.267
246	1996/4/10		2,117		5,000	TISI 1120-2535	2	18.7	0.453
247	10/4/96		1,662		2,446	TISI 1280-2538	3	33.6	1.063
248	10/4/96		1,662		2,446	TISI 1280-2538	3	33.6	1.063
249	17/4/96		1,625		2,997	TISI 1280-2538	3	33.6	0.149
250	17/4/96		1,625		2,997	TISI 1280-2538	3	33.6	0.149
251	18/4/96		1,625		2,997	TISI 1280-2538	3	33.6	0.130
252	18/4/96		1,625		2,997	TISI 1280-2538	3	33.6	0.130
253	22/4/96		1,959		5,474	TISI 1280-2538	3	33.6	0.131
254	22/4/96		1,959		5,474	TISI 1280-2538	3	33.6	0.131
255	1996/4/23		2,122		5,000	TISI 1120-2535	2	18.7	0.227
256	23/4/96		1,959		5,474	TISI 1280-2538	3	33.6	0.163
257	23/4/96		1,959		5,474	TISI 1280-2538	3	33.6	0.163
258	1996/5/1		1,596		3,200	TISI 1120-2535	2	18.7	0.227
259	08/5/96		1,347		1,998	TISI 1280-2538	3	33.6	0.102
260	08/5/96		1,716		2,394	TISI 1280-2538	3	33.6	0.125
261	08/5/96		1,347		1,998	TISI 1280-2538	3	33.6	0.102
262	08/5/96		1,716		2,394	TISI 1280-2538	3	33.6	0.125
263	09/5/96		1,347		1,998	TISI 1280-2538	3	33.6	0.092
264	09/5/96		1,444		1,796	TISI 1280-2538	3	33.6	0.072
265	09/5/96		1,347		1,998	TISI 1280-2538	3	33.6	0.092
266	09/5/96		1,444		1,796	TISI 1280-2538	3	33.6	0.072
267	10/5/96		1,265		1,761	TISI 1280-2538	3	33.6	0.455
268	10/5/96		1,265		1,761	TISI 1280-2538	3	33.6	0.455
269	1996/5/15		1,251		2,000	TISI 1120-2535	2	18.7	2.493
270	17/5/96		2,090		2,799	TISI 1280-2538	3	33.6	0.804

Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
271	17/5/96		2,090		2,799	TISI 1280-2538	3	33.6	0.804
272	21/5/96		2,127		3,199	TISI 1280-2538	3	33.6	0.165
273	21/5/96		2,127		3,199	TISI 1280-2538	3	33.6	0.165
274	23/5/96		1,552		2,316	TISI 1280-2538	3	33.6	0.049
275	23/5/96		1,622		2,319	TISI 1280-2538	3	33.6	0.093
276	23/5/96		1,591		2,319	TISI 1280-2538	3	33.6	0.113
277	23/5/96		1,552		2,316	TISI 1280-2538	3	33.6	0.049
278	23/5/96		1,622		2,319	TISI 1280-2538	3	33.6	0.093
279	23/5/96		1,591		2,319	TISI 1280-2538	3	33.6	0.113
280	24/5/96		1,622		2,319	TISI 1280-2538	3	33.6	0.129
281	24/5/96		1,591		2,319	TISI 1280-2538	3	33.6	0.148
282	24/5/96		1,622		2,319	TISI 1280-2538	3	33.6	0.129
283	24/5/96		1,591		2,319	TISI 1280-2538	3	33.6	0.148
284	05/6/96		1,440		1,796	TISI 1280-2538	3	33.6	0.062
285	05/6/96		1,722		2,394	TISI 1280-2538	3	33.6	0.258
286	05/6/96		1,440		1,796	TISI 1280-2538	3	33.6	0.062
287	1996/6/6		1,978		2,800	TISI 1120-2535	2	18.7	0.323
288	06/6/96		1,440		1,796	TISI 1280-2538	3	33.6	0.055
289	06/6/96		1,440		1,796	TISI 1280-2538	3	33.6	0.055
290	1996/6/7		1,978		2,800	TISI 1120-2535	2	18.7	0.287
291	13/6/96		2,136		3,199	TISI 1280-2538	3	33.6	0.107
292	13/6/96		1,604		2,300	TISI 1280-2538	3	33.6	0.084
293	13/6/96		2,136		3,199	TISI 1280-2538	3	33.6	0.107
294	14/6/96		2,090		2,800	TISI 1280-2538	3	33.6	0.113
295	14/6/96		2,090		2,800	TISI 1280-2538	3	33.6	0.113
296	18/6/96		1,445		2,316	TISI 1280-2538	3	33.6	0.064
297	19/6/96		2,038		3,400	TISI 1280-2538	3	33.6	0.652
298	1996/6/20		2,076			TISI 1120-2535	2	18.7	2.604
299	1996/6/20		2,038		3,400	TISI 1365-2539	4	33.6	0.073
300	20/6/96		2,076		3,000	TISI 1280-2538	3	33.6	10.550
301	20/6/96		1,954		3,400	TISI 1280-2538	3	33.6	1.333
302	03/7/96		1,545		2,316	TISI 1280-2538	3	33.6	0.066
303	03/7/96		1,545		2,316	TISI 1280-2538	3	33.6	0.066
304	1996/7/9		1,879			TISI 1120-2535	2	18.7	0.468
305	09/7/96		1,879		3,000	TISI 1280-2538	3	33.6	1.896
306	1996/7/10		1,939			TISI 1120-2535	2	18.7	0.331
307	1996/7/10		2,374			TISI 1120-2535	2	18.7	0.294
308	10/7/96		1,723		2,394	TISI 1280-2538	3	33.6	0.136
309	10/7/96		1,442		1,796	TISI 1280-2538	3	33.6	0.088
310	10/7/96		1,723		2,394	TISI 1280-2538	3	33.6	0.136
311	10/7/96		1,442		1,442	TISI 1280-2538	3	33.6	0.088
312	10/7/96		1,939		2,800	TISI 1280-2538	3	33.6	1.341
313	10/7/96		2,374		3,955	TISI 1280-2538	3	33.6	1.191
314	1996/7/11		1,939			TISI 1120-2535	2	18.7	0.317
315	11/7/96		1,545		2,316	TISI 1280-2538	3	33.6	0.075
316	11/7/96		1,545		2,316	TISI 1280-2538	3	33.6	0.075
317	11/7/96		1,939		2,800	TISI 1280-2538	3	33.6	1.286
318	1996/7/17		1,948		2,800	TISI 1120-2535	2	18.7	0.525
319	1996/7/17		1,948		2,800	TISI 1120-2535	2	18.7	0.525
320	17/7/96		2,071		5,474	TISI 1280-2538	3	33.6	0.247
321	17/7/96		2,071		5,474	TISI 1280-2538	3	33.6	0.247
322	1996/7/18		1,948		2,800	TISI 1120-2535	2	18.7	0.379
323	1996/7/18		1,948		2,800	TISI 1120-2535	2	18.7	0.379
324	18/7/96		2,071		5,474	TISI 1280-2538	3	33.6	0.276

Table 3.2 Chassis Dynamometer Test Data (LDGV)

LDGV

No.	Date	Engine	Weight_kg	Odometer_km	Capacity_cc	Std. or Cycle	Lvl.	Ave. Spd._km/h	NOx_g/km
325	18/7/96		2,071		5,474	TISI 1280-2538	3	33.6	0.276
326	1996/7/23		2,197		4,476	TISI 1120-2535	2	18.7	5.077
327	1996/7/23		2,197		4,476	TISI 1120-2535	2	18.7	5.077
328	23/7/96		2,197		4,476	TISI 1280-2538	3	33.6	20.574
329	24/7/96		2,089		4,973	TISI 1280-2538	3	33.6	0.366
330	06/8/96		1,910		2,958	TISI 1280-2538	3	33.6	1.886
331	06/8/96		1,939		5,000	TISI 1280-2538	3	33.6	1.277
332	15/8/96		1,695		2,394	TISI 1280-2538	3	33.6	0.139
333	15/8/96		1,428		1,796	TISI 1280-2538	3	33.6	0.071
334	15/8/96		1,695		2,394	TISI 1280-2538	3	33.6	0.139
335	15/8/96		1,428		1,796	TISI 1280-2538	3	33.6	0.071
336	15/8/96		2,225		4,476	TISI 1280-2538	3	33.6	17.601
337	15/8/96		1,934		2,693	TISI 1280-2538	3	33.6	0.246
338	15/8/96		1,934		2,693	TISI 1280-2538	3	33.6	0.246
339	16/8/96		2,396		4,476	TISI 1280-2538	3	33.6	1.525
340	21/8/96		2,089		4,973	TISI 1280-2538	3	33.6	0.266
341	1996/8/22		1,440		3,164	TISI 1120-2535	2	18.7	0.355
342	1996/8/22		2,234		4,973	TISI 1120-2535	2	18.7	0.307
343	1996/8/22		1,440		3,164	TISI 1120-2535	2	18.7	0.355
344	22/8/96		2,134		4,973	TISI 1280-2538	3	33.6	1.245
345	23/8/96		2,061		4,973	TISI 1280-2538	3	33.6	0.048
346	1996/8/26		2,312		4,476	TISI 1120-2535	2	18.7	0.650
347	26/8/96		4,376		2,312	TISI 1280-2538	3	33.6	2.635
348	27/8/96		2,529		6,750	TISI 1280-2538	3	33.6	0.182
349	1996/8/28		1,939		4,973	TISI 1120-2535	2	18.7	0.397
350	1996/8/28		1,872		3,980	TISI 1120-2535	2	18.7	0.492
351	1996/8/28		1,872		3,980	TISI 1120-2535	2	18.7	0.302
352	1996/8/28		1,872		3,980	TISI 1120-2535	2	18.7	0.492
353	1996/8/28		1,889		3,980	TISI 1120-2535	2	18.7	0.302
354	1996/8/28		2,039		4,973	TISI 1120-2535	2	18.7	0.397
355	29/8/96		2,408		6,750	TISI 1280-2538	3	33.6	0.314
356	1996/8/30		1,194		1,797	TISI 1120-2535	2	18.7	0.367
357	1996/8/30		1,194		1,797	TISI 1120-2535	2	18.7	0.367
358	30/8/96		2,529		6,750	TISI 1280-2538	3	33.6	0.052
359	02/9/96		1,779		3,980	TISI 1280-2538	3	33.6	0.360
360	02/9/96		1,893		3,980	TISI 1280-2538	3	33.6	0.248
361	1996/9/3		1,897		3,980	TISI 1120-2535	2	18.7	0.539
362	1996/9/3		1,438		3,164	TISI 1120-2535	2	18.7	0.282
363	1996/9/3		1,897		3,980	TISI 1120-2535	2	18.7	0.539
364	1996/9/3		1,438		3,600	TISI 1120-2535	2	18.7	0.282
365	1996/9/5		2,105		4,476	TISI 1120-2535	2	18.7	2.532
366	05/9/96		2,205		4,476	TISI 1280-2538	3	33.6	10.261
367	1996/9/6		2,003			TISI 1120-2535	2	18.7	0.880
368	1996/9/6		2,105		4,476	TISI 1120-2535	2	18.7	2.692
369	06/9/96		2,205		4,476	TISI 1280-2538	3	33.6	10.912
370	06/9/96		2,103		2,972	TISI 1280-2538	3	33.6	3.564
371	1996/9/9		1,974		3,497	TISI 1120-2535	2	18.7	0.327
372	09/9/96		1,974		3,497	TISI 1280-2538	3	33.6	1.323
373	22/10/96		1,947		2,800	TISI 1280-2538	3	33.6	0.098
374	1996/10/25		1,580		2,800	TISI 1120-2535	2	18.7	0.408
375	1996/10/25		1,480		2,800	TISI 1120-2535	2	18.7	0.408
376	25/10/96		1,642		3,200	TISI 1280-2538	3	33.6	0.107
377	28/10/96		1,983		2,800	TISI 1280-2538	3	33.6	0.120
378	29/10/96		1,983		2,800	TISI 1280-2538	3	33.6	0.124