



†	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	1.67	1.45	13.16	0.27 3.62

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

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	LDOT	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:	2.17	0.00	0.00	0.00	1.78	1.54	14.02	0.28 3.84

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: 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		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	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:	2.36	0.00	0.00	0.00	1.92	1.67	15.14	0.31 4.15

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: 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		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	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:	2.55	0.00	0.00	0.00	2.10	1.82	16.58	0.34 4.53

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

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		
O Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDOT	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
OComposite Emission Factors (Gm/Mile)									
	Exhst NOX:	2.73	0.00	0.00	0.00	2.34	2.02	18.39	0.37 4.99

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			
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	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:	2.92	0.00	0.00	0.00	0.00	2.63	2.28	20.69	0.39	5.54



1
 TAcIDES(JICA) Yr2011 4/4 HDDV(NG3)
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 0. 047860. 044750. 041640. 038530. 035430. 032320. 029210. 026110. 023000. 01989
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 0. 0950. 0850. 0760. 0670. 0600. 0530. 0470. 0420. 0370. 032
 0. 0280. 0220. 0180. 0140. 0400. 0570. 0530. 0420. 0350. 031
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 24
 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 12/02/2002 at 2:28:04

1TAcIDES(JICA) Yr2011 4/4 HDDV(NG3)
 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	2001	4.70	0.00	Yes
12	1	7	3	2002	2005	29.83	0.00	Yes
13	1	7	3	2006	2020	21.30	0.00	Yes
14	1	8	3	1971	1994	0.08	0.00	Yes
15	1	8	3	1995	1995	0.09	0.00	Yes
16	1	8	3	1996	1996	0.10	0.00	Yes
17	1	8	3	1997	1997	0.12	0.00	Yes
18	1	8	3	1998	1998	0.19	0.00	Yes
19	1	8	3	1999	1999	0.22	0.00	Yes
20	1	8	3	2000	2000	0.28	0.00	Yes
21	1	8	3	2001	2001	0.31	0.00	Yes
22	1	8	3	2002	2002	0.33	0.00	Yes
23	1	8	3	2003	2003	0.35	0.00	Yes
24	1	8	3	2004	2020	0.24	0.00	Yes

0Replacement 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 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

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGCV	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 32.52 0.21 7.56

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

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	LDOT	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:	2.22	0.00	0.00	0.00	0.00	2.55	2.21	28.60	0.19	6.60

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

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	LDOT	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:	2.07	0.00	0.00	0.00	0.00	2.28	1.97	25.50	0.18	5.92

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

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	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:	2.00	0.00	0.00	0.00	0.00	2.06	1.79	23.06	0.17	5.41

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

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	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:	1.95	0.00	0.00	0.00	0.00	1.89	1.64	21.13	0.18	5.02

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: 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

OVeh. 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: 1.92 0.00 0.00 0.00 0.00 1.75 1.52 19.63 0.19 4.71

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

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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.94 0.00 0.00 0.00 0.00 1.65 1.43 18.48 0.20 4.50

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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.97 0.00 0.00 0.00 0.00 1.58 1.37 17.65 0.21 4.35

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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.99 0.00 0.00 0.00 0.00 1.52 1.32 17.06 0.23 4.24

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: 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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.01 0.00 0.00 0.00 0.00 1.50 1.30 16.75 0.24 4.19

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

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			
O	Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	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		
OComposite Emission Factors (Gm/Mile)											
	Exhst NOX:	2.03	0.00	0.00	0.00	1.49	1.29	16.66	0.25	4.18	

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

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			
O	Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	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		
OComposite Emission Factors (Gm/Mile)											
	Exhst NOX:	2.04	0.00	0.00	0.00	1.50	1.30	16.80	0.25	4.22	

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

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			
O	Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	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		
OComposite Emission Factors (Gm/Mile)											
	Exhst NOX:	2.05	0.00	0.00	0.00	1.53	1.33	17.18	0.26	4.30	

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

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			
O	Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDCV	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:	2.06	0.00	0.00	0.00	1.59	1.38	17.81	0.26	4.42	

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

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	HDCV	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:	2.06	0.00	0.00	0.00	1.59	1.38	17.81	0.26	4.42	



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:	2.07	0.00	0.00	0.00	0.00	1.67	1.45	18.71	0.27	4.61

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

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	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:	2.17	0.00	0.00	0.00	0.00	1.78	1.54	19.93	0.28	4.89

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

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	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:	2.36	0.00	0.00	0.00	0.00	1.92	1.67	21.52	0.31	5.29

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

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	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:	2.55	0.00	0.00	0.00	0.00	2.10	1.82	23.56	0.34	5.78

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

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			
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	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:	2.73	0.00	0.00	0.00	0.00	2.34	2.02	26.15	0.37	6.37

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
0Veh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV LDDV LDDT HDDV MC All Veh
+		
Veh. Spd.:	62.1 62.1 62.1	62.1 62.1 62.1 62.1 62.1
YMT Mix:	0.430 0.000 0.000	0.000 0.070 0.155 0.178 0.167
0Composite Emission Factors (Gm/Mile)		
Exhst NOX:	2.92 0.00 0.00 0.00	0.00 2.63 2.28 29.41 0.39 7.09



1
TAcIDES(JICA) Yr2011 4/4 HDDV(NG2+NG3)
1
1
3
4
2
1
1
1
1
1
1
4
3
1
1
2
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0.045000.045000.045000.045000.04500
0.201400.175720.154320.136390.121330.108630.097880.088770.081030.07444
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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
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24
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



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1 6 3 01 03 1.1770 0.0300 0.0000
1 6 3 04 20 0.9160 0.0300 0.0000
1 7 3 71 01 1.9080 0.0000 0.0000
1 7 3 02 03 14.6500 0.0000 0.0000
1 7 3 04 20 1.9080 0.0000 0.0000
1 8 3 71 94 0.0800 0.0000 0.0000
1 8 3 95 95 0.0900 0.0000 0.0000
1 8 3 96 96 0.1000 0.0000 0.0000
1 8 3 97 97 0.1200 0.0000 0.0000
1 8 3 98 98 0.1900 0.0000 0.0000
1 8 3 99 99 0.2200 0.0000 0.0000
1 8 3 00 00 0.2800 0.0000 0.0000
1 8 3 01 01 0.3100 0.0000 0.0000
1 8 3 02 02 0.3300 0.0000 0.0000
1 8 3 03 03 0.3500 0.0000 0.0000
1 8 3 04 20 0.2400 0.0000 0.0000
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
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
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
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
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
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
1 11 21.7 91.9 20.6 27.3 20.6 7
35 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
1 11 24.8 91.9 20.6 27.3 20.6 7
40 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
1 11 28.0 91.9 20.6 27.3 20.6 7
45 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
1 11 31.1 91.9 20.6 27.3 20.6 7
50 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
1 11 34.2 91.9 20.6 27.3 20.6 7
55 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
1 11 37.3 91.9 20.6 27.3 20.6 7
60 km/hr     B75.2096.809.0009.000 20 1 2 1
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.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010.010

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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 11/30/2002 at 4:32:32

1TAcIDES(JICA) Yr2011 4/4 HDDV(NG2+NG3)
 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	2001	4.70	0.00	Yes
12	1	7	3	2002	2003	29.83	0.00	Yes
13	1	7	3	2004	2020	3.88	0.00	Yes
14	1	8	3	1971	1994	0.08	0.00	Yes
15	1	8	3	1995	1995	0.09	0.00	Yes
16	1	8	3	1996	1996	0.10	0.00	Yes
17	1	8	3	1997	1997	0.12	0.00	Yes
18	1	8	3	1998	1998	0.19	0.00	Yes
19	1	8	3	1999	1999	0.22	0.00	Yes
20	1	8	3	2000	2000	0.28	0.00	Yes
21	1	8	3	2001	2001	0.31	0.00	Yes
22	1	8	3	2002	2002	0.33	0.00	Yes
23	1	8	3	2003	2003	0.35	0.00	Yes
24	1	8	3	2004	2020	0.24	0.00	Yes

0Replacement 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 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

Veh. 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:	2.67	0.00	0.00	0.00	0.00	2.90	2.52	8.72	0.21	3.33

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

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:	2.22	0.00	0.00	0.00	0.00	2.55	2.21	7.67	0.19	2.87

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

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:	2.07	0.00	0.00	0.00	0.00	2.28	1.97	6.84	0.18	2.60

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

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:	2.00	0.00	0.00	0.00	0.00	2.06	1.79	6.19	0.17	2.41

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

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:	1.95	0.00	0.00	0.00	0.00	1.89	1.64	5.67	0.18	2.26

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

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: 1.92 0.00 0.00 0.00 0.00 1.75 1.52 5.26 0.19 2.15

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: 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.94 0.00 0.00 0.00 0.00 1.65 1.43 4.96 0.20 2.09

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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.97 0.00 0.00 0.00 0.00 1.58 1.37 4.73 0.21 2.05

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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 1.99 0.00 0.00 0.00 0.00 1.52 1.32 4.58 0.23 2.02

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: 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 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
 O Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.01 0.00 0.00 0.00 0.00 1.50 1.30 4.49 0.24 2.01

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

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: 2.03 0.00 0.00 0.00 0.00 1.49 1.29 4.47 0.25 2.01

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

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: 2.04 0.00 0.00 0.00 0.00 1.50 1.30 4.51 0.25 2.03

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

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: 2.05 0.00 0.00 0.00 0.00 1.53 1.33 4.61 0.26 2.06

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

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: 2.06 0.00 0.00 0.00 0.00 1.59 1.38 4.78 0.26 2.10

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: 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 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:	2.07	0.00	0.00	0.00	0.00	1.67	1.45	5.02	0.27 2.17

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

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	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	5.35	0.28 2.30

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

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	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	5.77	0.31 2.49

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.

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				
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	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	6.32	0.34 2.71

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

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				
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	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	7.01	0.37 2.96

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.



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
0Veh. Type:	LDGV LDGT1 LDGT2 LDGT	HGV 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:	2.92 0.00 0.00 0.00	0.00 2.63 2.28 7.89 0.39 3.26



1
 TAcIDES(JICA) Yr2011 4/4 HDDV(VR1/2)
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 0. 127550. 126980. 124090. 123870. 124810. 122880. 122880. 117490. 117420. 11469
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 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
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 0. 0010. 0010. 0010. 0010. 001
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 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 11/27/2002 at 20:34:47

1TAcIDES(JICA) Yr2011 4/4 HDDV(VR1/2)
 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

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
 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: 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

Veh. 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	3.1	3.1
VMT Mix:	0.430	0.000	0.000	0.000	0.000	0.070	0.155	0.178	0.167	
0 Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.67	0.00	0.00	0.00	0.00	2.90	2.52	39.30	0.21	8.77

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: 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	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:	2.22	0.00	0.00	0.00	0.00	2.55	2.21	34.57	0.19	7.66

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

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:	2.07	0.00	0.00	0.00	0.00	2.28	1.97	30.81	0.18	6.87

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

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:	2.00	0.00	0.00	0.00	0.00	2.06	1.79	27.87	0.17	6.27

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

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:	1.95	0.00	0.00	0.00	0.00	1.89	1.64	25.54	0.18	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

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		
0Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HGV	LDDV	LDDT	HDDV	MC	All Veh
Veh. Spd.:										
VMT Mix:										
0Composite Emission Factors (Gm/Mile)										
Exhst NOX:										



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	
OC Composite Emission Factors (Gm/Mile)									
Exhst NOX:	1.92	0.00	0.00	0.00	1.75	1.52	23.72	0.19	5.44

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: 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			
OVeh. 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	21.7	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OC Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.94	0.00	0.00	0.00	1.65	1.43	22.34	0.20	5.18	

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: 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			
OVeh. 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	24.8	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OC Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.97	0.00	0.00	0.00	1.58	1.37	21.33	0.21	5.00	

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: 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			
OVeh. 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	28.0	
VMT Mix:	0.430	0.000	0.000	0.000	0.070	0.155	0.178	0.167		
OC Composite Emission Factors (Gm/Mile)										
Exhst NOX:	1.99	0.00	0.00	0.00	1.52	1.32	20.62	0.23	4.88	

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: 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			
OVeh. 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		
OC Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.01	0.00	0.00	0.00	1.50	1.30	20.24	0.24	4.81	

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

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	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	
Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.03	0.00	0.00	0.00	0.00	1.49	1.29	20.14	0.25	4.80

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

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	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	
Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.04	0.00	0.00	0.00	0.00	1.50	1.30	20.31	0.25	4.84

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: 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		
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	
Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.05	0.00	0.00	0.00	0.00	1.53	1.33	20.77	0.26	4.93

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

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	
Composite Emission Factors (Gm/Mile)										
Exhst NOX:	2.06	0.00	0.00	0.00	0.00	1.59	1.38	21.52	0.26	5.08

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

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	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	22.62	0.27 5.30

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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		
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	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.17	0.00	0.00	0.00	0.00	1.78	1.54	24.09	0.28 5.63

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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		
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	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.36	0.00	0.00	0.00	0.00	1.92	1.67	26.01	0.31 6.09

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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		
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	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.55	0.00	0.00	0.00	0.00	2.10	1.82	28.48	0.34 6.65

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

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		
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	
OComposite Emission Factors (Gm/Mile)									
Exhst NOX:	2.73	0.00	0.00	0.00	0.00	2.34	2.02	31.60	0.37 7.34

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
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	35.55	0.39	8.19



1
TAcIDES(JICA) Yr2011 4/4 HDDV(NG2+VR1)
1
1
3
4
2
1
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
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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 11/27/2002 at 21:46:39

1TAcIDES(JICA) Yr2011 4/4 HDDV(NG2+VR1)
 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	2003	29.83	0.00	Yes
14	1	7	3	2004	2020	3.88	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:

	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 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 0.070 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 10.08 0.21 3.57

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

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:	2.22	0.00	0.00	0.00	0.00	2.55	2.21	8.86	0.19	3.09

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

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:	2.07	0.00	0.00	0.00	0.00	2.28	1.97	7.90	0.18	2.79

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: 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			
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:	2.00	0.00	0.00	0.00	0.00	2.06	1.79	7.15	0.17	2.58

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

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:	1.95	0.00	0.00	0.00	0.00	1.89	1.64	6.55	0.18	2.42

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

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.:										
VMT Mix:										
OComposite Emission Factors (Gm/Mile)										
Exhst NOX:										



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	6.08	0.19 2.30

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	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	5.73	0.20 2.23

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

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	
O Composite Emission Factors (Gm/Mile)									
Exhst NOX:	1.97	0.00	0.00	0.00	0.00	1.58	1.37	5.47	0.21 2.18

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	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	5.29	0.23 2.15

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: 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	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	5.19	0.24 2.13

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 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: 2.03 0.00 0.00 0.00 0.00 1.49 1.29 5.16 0.25 2.14

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 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: 2.04 0.00 0.00 0.00 0.00 1.50 1.30 5.21 0.25 2.15

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 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: 2.05 0.00 0.00 0.00 0.00 1.53 1.33 5.32 0.26 2.19

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 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
 0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.06 0.00 0.00 0.00 0.00 1.59 1.38 5.52 0.26 2.24

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 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	
	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	1.67	1.45	5.80	0.27	2.31

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

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:	2.17	0.00	0.00	0.00	1.78	1.54	6.18	0.28	2.44

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

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:	2.36	0.00	0.00	0.00	1.92	1.67	6.67	0.31	2.65

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

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:	2.55	0.00	0.00	0.00	2.10	1.82	7.30	0.34	2.88

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

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

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	2.34	2.02	8.10	0.37	3.16

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	HGV	LDDV	LDOT	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	
Composite Emission Factors (Gm/Mile)										
Exhst NOx:	2.92	0.00	0.00	0.00	0.00	2.63	2.28	9.12	0.39	3.48



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 26
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 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



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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 12/02/2002 at 16:54:13

1TAcIDES(JICA) Yr2011 4/4 Real EURO Truck
 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	2003	29.83	0.00	Yes
14	1	7	3	2004	2005	8.88	0.00	Yes
15	1	7	3	2006	2020	6.22	0.00	Yes
16	1	8	3	1971	1994	0.08	0.00	Yes
17	1	8	3	1995	1995	0.09	0.00	Yes
18	1	8	3	1996	1996	0.10	0.00	Yes
19	1	8	3	1997	1997	0.12	0.00	Yes
20	1	8	3	1998	1998	0.19	0.00	Yes
21	1	8	3	1999	1999	0.22	0.00	Yes
22	1	8	3	2000	2000	0.28	0.00	Yes
23	1	8	3	2001	2001	0.31	0.00	Yes
24	1	8	3	2002	2002	0.33	0.00	Yes
25	1	8	3	2003	2003	0.35	0.00	Yes
26	1	8	3	2004	2020	0.24	0.00	Yes

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 basic exhaust emissions rates, mileage accrual distributions, veh registration distributions.

0 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

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	HGCV	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:	2.67	0.00	0.00	0.00	0.00	2.90	2.52	26.24	0.21	6.45			

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.



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	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:	2.22	0.00	0.00	0.00	0.00	2.55	2.21	23.08	0.19	5.62

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

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:	2.07	0.00	0.00	0.00	0.00	2.28	1.97	20.58	0.18	5.05

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

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:	2.00	0.00	0.00	0.00	0.00	2.06	1.79	18.61	0.17	4.62

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

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:	1.95	0.00	0.00	0.00	0.00	1.89	1.64	17.05	0.18	4.29

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

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		
0Veh. 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:	1.92	0.00	0.00	0.00	0.00	1.75	1.52	15.84	0.19	4.04

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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	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	14.92	0.20	3.86

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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	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	14.24	0.21	3.74

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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	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	13.77	0.23	3.66

O Emission factors are as of July 1st of the indicated calendar year.
 O User supplied basic exhaust emissions rates, mileage accrual distributions, vch 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	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	13.51	0.24	3.62

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.
 OCal. 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
 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: 2.03 0.00 0.00 0.00 0.00 1.49 1.29 13.45 0.25 3.61

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

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: 2.04 0.00 0.00 0.00 0.00 1.50 1.30 13.56 0.25 3.64

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

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: 2.05 0.00 0.00 0.00 0.00 1.53 1.33 13.87 0.26 3.71

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

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: 2.06 0.00 0.00 0.00 0.00 1.59 1.38 14.37 0.26 3.81

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

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	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	
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:	2.07	0.00	0.00	0.00	0.00	1.67	1.45	15.10	0.27	3.96

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

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										
0Veh. 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	
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	1.78	1.54	16.09	0.28	4.21

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

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:	2.36	0.00	0.00	0.00	0.00	1.92	1.67	17.37	0.31	4.55

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

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:	2.55	0.00	0.00	0.00	0.00	2.10	1.82	19.02	0.34	4.97

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

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:	2.73	0.00	0.00	0.00	0.00	2.34	2.02	21.10	0.37	5.47

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



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	
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	23.74	0.39	6.08



1
TAcIDES(JICA) Yr2011 4/4 Real EURO Bus
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. 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
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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
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0.201400.175720.154320.136390.121330.108630.097880.088770.081030.07444
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0.127550.126980.124090.123870.124810.122880.122880.117490.117420.11469
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0.201400.175720.154320.136390.121330.108630.097880.088770.081030.07444
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0.045000.045000.045000.045000.04500
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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
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0.0190.0210.0130.0090.004
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0.0170.0180.0110.0090.0310.0390.0420.0470.0640.018
0.0120.0130.0100.0080.008
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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
5
1 7 3 71 97 20.380 0.0570 0.0000
1 7 3 98 99 16.740 0.0570 0.0000
1 7 3 00 03 14.650 0.0000 0.0000
1 7 3 04 05 5.1890 0.0000 0.0000
1 7 3 06 20 3.6320 0.0000 0.0000
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
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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
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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
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.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
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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
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.010.010.010.010.010.010.010.010.010.010



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 12/02/2002 at 16:54:13

1TAcIDES(JICA) Yr2011 4/4 Real EURO Bus
 MOBILE5a (26-Mar-93)

0 Emission Factor Modification Profile

Equation	Reg	Veh	Pol	First MY	Last MY	Base	DR	Altered
1	1	7	3	1971	1997	51.43	0.14	Yes
2	1	7	3	1998	1999	34.08	0.12	Yes
3	1	7	3	2000	2003	29.83	0.00	Yes
4	1	7	3	2004	2005	10.56	0.00	Yes
5	1	7	3	2006	2020	7.39	0.00	Yes

0Replacement 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 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

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDTV	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	1.93	2.11	27.84	0.81	6.70
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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

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

Veh. Type:	LDGV	LDGT1	LDGT2	LDGT	HDTV	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:	2.22	0.00	0.00	0.00	0.00	1.70	1.86	24.49	0.72	5.84
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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



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					
OCComposite Emission Factors (Gm/Mile)															
Exhst NOX:		2.07	0.00	0.00	0.00	0.00	1.52	1.65	21.83	0.68	5.25				

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

OUser supplied basic exhaust emissions rates, mileage accrual distributions, vch registration distributions.

Ocal. 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	
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					
OCComposite Emission Factors (Gm/Mile)															
Exhst NOX:		2.00	0.00	0.00	0.00	0.00	1.37	1.50	19.75	0.67	4.81				

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

OUser supplied basic exhaust emissions rates, mileage accrual distributions, vch registration distributions.

Ocal. 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	
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					
OCComposite Emission Factors (Gm/Mile)															
Exhst NOX:		1.95	0.00	0.00	0.00	0.00	1.26	1.37	18.09	0.70	4.48				

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

OUser supplied basic exhaust emissions rates, mileage accrual distributions, vch registration distributions.

Ocal. 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	
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					
OCComposite Emission Factors (Gm/Mile)															
Exhst NOX:		1.92	0.00	0.00	0.00	0.00	1.17	1.27	16.81	0.73	4.22				

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

OUser supplied basic exhaust emissions rates, mileage accrual distributions, vch registration distributions.

Ocal. 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	
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					
OCComposite Emission Factors (Gm/Mile)															



Exhst NOX: 1.94 0.00 0.00 0.00 0.00 1.10 1.20 15.83 0.78 4.04

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

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 24.8

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: 1.97 0.00 0.00 0.00 0.00 1.05 1.14 15.11 0.83 3.93

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

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 28.0

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: 1.99 0.00 0.00 0.00 0.00 1.01 1.11 14.61 0.88 3.85

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

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 31.1

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: 2.01 0.00 0.00 0.00 0.00 1.00 1.09 14.34 0.92 3.81

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

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 34.2

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: 2.03 0.00 0.00 0.00 0.00 0.99 1.08 14.27 0.95 3.81

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

| 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: | 2.04 | 0.00 | 0.00 | 0.00 | 0.00 | 1.00 | 1.09 | 14.39 | 0.98 | 3.84 |

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: 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

| 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: | 2.05 | 0.00 | 0.00 | 0.00 | 0.00 | 1.02 | 1.11 | 14.71 | 1.00 | 3.91 |

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

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: | 2.06 | 0.00 | 0.00 | 0.00 | 0.00 | 1.06 | 1.16 | 15.25 | 1.02 | 4.02 |

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: 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: | 2.07 | 0.00 | 0.00 | 0.00 | 0.00 | 1.11 | 1.21 | 16.02 | 1.03 | 4.18 |

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

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 | |



0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.17 0.00 0.00 0.00 0.00 1.19 1.29 17.07 1.10 4.44

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

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 0.070 0.155 0.178 0.167

0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.36 0.00 0.00 0.00 0.00 1.28 1.40 18.43 1.21 4.80

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

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 0.070 0.155 0.178 0.167

0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.55 0.00 0.00 0.00 0.00 1.40 1.53 20.17 1.31 5.24

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

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 0.070 0.155 0.178 0.167

0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.73 0.00 0.00 0.00 0.00 1.56 1.70 22.39 1.42 5.77

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

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 0.070 0.155 0.178 0.167

0Composite Emission Factors (Gm/Mile)
 Exhst NOX: 2.92 0.00 0.00 0.00 0.00 1.75 1.91 25.19 1.52 6.41

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