SECTION 11
COMPARISON OF RESULTS

A comparison was made of three (3) inventories:

- The TRW inventory using Air Resources Board (ARB) emission factors;
- The TRW inventory using Environmental Protection Agency (EPA) emission factors;
- An inventory developed by the ARB [27].

As shown in Table 34, the TRW inventories show substantially higher emissions for all pollutants than does the ARB inventory. This is true even for the TRW inventory that uses the same emission factors. Tables 35 through 54 present comparisons of the three (3) inventories in greater detail.

Since the TRW estimates were developed on a link-by-link basis (see Section 5) and the ARB estimates on a county-wide basis, direct comparisons are not possible. However, some basis for the differences can be determined.

As shown in Tables 55 through 58, the ARB's vehicle miles traveled (VMT) estimates are an average of 36% lower than TRW's. Tables 59 through 63 present the VMT estimates by body type for the Basin and each county. (The TRW VMT estimates were obtained directly from the Los Angeles Regional Transportation Study (LARTS) computerized traffic model.) It is believed that the VMT difference is the primary reason for the large differences in emissions estimates.

Other reasons are:

- The TRW inventory used peak and off-peak link speeds instead of a daily average;
- The speed correction factors used were those developed in the previous study of light-duty vehicles (LDV) [2];
- A complex system of allocating HDV traffic by hour-of-day, day-of-week and location was employed by TRW.

Since different procedures and different data bases were used in developing the inventories, it is not surprising that substantially different results were obtained. It is probable that in the future the reasons for the differences can be clarified and new, more accurate, inventories developed.

Table 34. 1975 Annual Average Daily Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY, [25]	% DIFFERENCE	
	ARB Emission Factors, [13] tons/day	EPA Emission Factors, [5] tons/day	tons/day	TRW Inventory and ARB Inventory	Alternative TRW Inventory and ARB Inventory
Hydrocarbons	119.2	147.1	113.3	- 5	- 23
Carbon Monoxide	876.7	938.7	770.0	- 12	- 18
Nitrogen Oxides	302.9	293.1	185.6	- 39	- 37
Sulfur Dioxide	22.6	21.6	15.7	- 31	- 27
Particulates	24.2	24.2	16.6	- 31	- 31

Table 35. 1975 Annual Average Dialy Organic Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors, tons/day	EPA Emission Factors, tons/day	tons/day
Los Angeles*	81.3	99.7	76.4
Orange	22.1	27.2	20.9
Riverside*	6.4	9.1	6.4
San Bernardino*	9.4	11.1	9.7
Basin Total	119.2	147.1	113.3**

*SCAB portion only.
**Rounding error

Table 36. 1975 Annual Average Daily Organic Emissions from Medium-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	18.0	22.3	10.5
Orange	5.0	6.1	2.9
Riverside*	1.4	2.1	0.9
San Bernardino*	2.1	2.4	1.3
Basin Total	26.5	33.0**	15.6

*SCAB portion only.
**Rounding error

Table 37. 1975 Annual Average Daily Organic Emissions from Heavy-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	53.5	66.7	56.5
Orange	14.4	17.9	15.4
Riverside*	4.5	6.4	4.7
San Bernardino*	6.0	7.3	7.2
Basin Total	78.4	98.2**	83.8

*SCAB portion only.
**Rounding error

Table 38. 1975 Annual Average Daily Organic Emissions from Heavy-Duty Diesel Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors, tons/day	EPA Emission Factors, tons/day	tons/day
Los Angeles*	9.7	10.8	9.4
Orange	2.8	3.1	2.6
Riverside*	0.5	0.6	0.8
San Bernardino*	1.2	1.3	1.2
Basin Total	14.3**	15.7**	13.9**

*SCAB portion only.
**Rounding error

Table 39. 1975 Annual Average Daily Carbon Monoxide Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	605.5	648.4	519.2
Orange	161.8	173.3	142.0
Riverside*	36.2	38.7	42.9
San Bernardino*	73.1	78.3	66.4
Basin Total	876.7**	938.7	770.0**

*SCAB portion only.
**Rounding error

Table 40. 1975 Annual Average Daily Carbon Monoxide Emissions from Medium-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	113.2	102.5	59.6
Orange	30.2	27.3	16.2
Riverside*	6.8	6.2	4.9
San Bernardino*	13.6	12.3	7.6
Basin Total	163.9**	148.3	88.3

*SCAB portion only.
**Rounding error

Table 41. 1975 Annual Average Daily Carbon Monoxide Emissions from Heavy-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	463.2	511.5	420
Orange	124.4	137.1	115
Riverside*	27.8	30.7	34.7
San Bernardino*	56.5	62.2	53.7
Basin Total	671.9	741.7**	623**

*SCAB portion only.
**Rounding error

Table 42. 1975 Annual Average Daily Carbon Monoxide Emissions from Heavy-Duty Diesel Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	29.0	34.4	39.6
Orange	7.5	8.8	10.8
Riverside*	1.4	1.7	3.3
San Bernardino*	3.2	3.8	5.1
Basin Total	41.0 **	48.8**	58.7**

*SCAB portion only.
** Rounding error

Table 43. 1975 Annual Average Daily NO_x Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	203.7	197.1	125.5
Orange	59.1	57.2	34.2
Riverside*	13.5	13.1	10.4
San Bernardino*	26.7	25.8	16.1
Basin Total	302.9**	293.1**	185.6**

*SCAB portion only.
**Rounding error

Table 44. 1975 Annual Average Daily NO_x Emissions from Medium-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	31.7	21.5	8.3
Orange	9.1	6.2	2.3
Riverside*	2.1	1.5	0.7
San Bernardino*	4.3	2.8	1.1
Basin Total	47.2	32.0	12.3**

*SCAB portion only.
**Rounding error

Table 45. 1975 Annual Average Daily NO_x Emissions from Heavy-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	60.2	63.0	35.9
Orange	17.2	17.9	9.8
Riverside*	3.9	4.1	3.0
San Bernardino*	7.9	8.4	4.6
Basin Total	89.4**	93.4	53.3

*SCAB portion only.
**Rounding error

Table 46. 1975 Annual Average Daily NO_x Emissions from Heavy-Duty Diesel Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	111.7	112.4	81.3
Orange	32.8	33.1	22.1
Riverside*	7.3	7.4	6.7
San Bernardino*	14.4	14.5	10.4
Basin Total	166.3**	167.4	120**

*SCAB portion only.
**Rounding error

Table 47. 1975 Annual Average Daily SO_2 Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	15.3	14.6	10.6
Orange	4.4	4.2	2.8
Riverside*	1.0	0.9	0.9
San Bernardino*	2.0	1.9	1.3
Basin Total	22.6**	21.6**	15.7**

*SCAB portion only.
**Rounding error

Table 48. 1975 Annual Average Daily SO_2 Emissions from Medium-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	1.1	1.0	0.2
Orange	.3	.3	-
Riverside*	.1	.1	-
San Bernardino*	.1	.1	-
Basin Total	1.6	1.6**	0.2

*SCAB portion only.
**Rounding error

Table 49. 1975 Annual Average Daily SO_2 Emissions from Heavy-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	2.5	1.6	1.1
Orange	0.7	0.3	0.3
Riverside*	0.1	0.1	0.1
San Bernardino*	0.2	0.1	0.1
Basin Total	3.7**	2.5**	1.7**

*SCAB portion only.
**Rounding error

Table 50. 1975 Annual Average Daily SO_2 Emissions from Heavy-Duty Diesel Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors, tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	11.6	11.8	9.3
Orange	3.7	3.6	2.5
Riverside*	0.7	0.7	0.8
San Bernardino*	1.4	1.4	1.2
Basin Total	17.3**	17.6**	13.8

*SCAB portion only.
**Rounding error

Table 51. 1975 Annual Average Daily Particulate Emissions from All Heavy-Duty Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	16.3	16.3	11.2
Orange	4.7	4.7	3.1
Riverside*	1.1	1.1	0.9
San Bernardino*	2.1	2.1	1.4
Basin Total	24.2	24.2	16.6

*SCAB portion only.
**Rounding error

Table 52. 1975 Annual Average Daily Particulate Emissions from Medium-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	1.8	1.8	0.7
Orange	0.5	0.5	0.2
Riverside*	0.1	0.1	0.1
San Bernardino*	0.2	0.2	0.1
Basin Total	2.6	2.6	1.0**

*SCAB portion only.
**Rounding error

Table 53. 1975 Annual Average Daily Particulate Emissions from Heavy-Duty Gasoline Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	5.6	5.6	4.0
Orange	1.4	1.4	1.1
Riverside*	0.2	0.2	0.3
San Bernardino*	0.7	0.7	0.5
Basin Total	8.1**	8.1**	5.9

*SCAB portion only.
**Rounding error

Table 54. 1975 Annual Average Daily Particulate Emissions from Heavy-Duty Diesel Powered Vehicles

	TRW INVENTORIES		ARB INVENTORY
	ARB Emission Factors tons/day	EPA Emission Factors tons/day	tons/day
Los Angeles*	9.1	9.1	6.5
Orange	2.5	2.5	1.8
Riverside*	0.6	0.6	0.5
San Bernardino*	1.0	1.0	0.8
Basin Total	13.3**	13.3**	9.7**

*SCAB portion only.
**Rounding error

Table 55. 1975 Annual Average Daily VMT for All Heavy-Duty Vehicles

County	VMT ESTIMATES		% Difference
	TRW VMT Estimate	ARB VMT Estimate [25]	
Los Angeles*	1.10×10^7	0.70×10^7	- 36
Orange	0.31×10^7	0.18×10^7	- 42
Riverside*	0.07×10^7	0.06×10^7	- 14
San Bernardino*	0.14×10^7	0.09×10^7	- 36
SCAB	$1.63 \times 10^{7**}$	$1.04 \times 10^{7**}$	- 36

*SCAB portion only.
**Rounding Error

Table 56. 1975 Annual Average Daily VMT for Heavy-Duty Gasoline Powered Vehicles

County	VMT ESTIMATES		% Difference
	TRW VMT Estimate	ARB VMT Estimate [25]	
Los Angeles*	4.23×10^6	2.89×10^6	- 32
Orange	1.19×10^6	0.78×10^6	- 34
Riverside*	0.27×10^6	0.23×10^6	- 15
San Bernardino*	0.54×10^6	0.38×10^6	- 30
SCAB	6.23×10^6	$4.29 \times 10^{6**}$	- 31

*SCAB portion only.
**Rounding Error

Table 57. 1975 Annual Average Daily VMT for Medium-Duty Gasoline Powered Vehicles

County	VMT ESTIMATES		% Difference
	TRW VMT Estimate	ARB VMT Estimate [25]	
Los Angeles*	2.95×10^6	1.10×10^6	- 63
Orange	0.83×10^6	0.30×10^6	- 64
Riverside*	0.19×10^6	0.09×10^6	- 53
San Bernardino*	0.38×10^6	0.14×10^6	- 63
SCAB	$4.36 \times 10^{6**}$	1.63×10^6	- 63

*SCAB portion only.
**Rounding error

Table 58. 1975 Annual Average Daily VMT for Heavy-Duty Diesel Powered Vehicles

County	VMT ESTIMATES		% Difference
	TRW VMT Estimate	ARB VMT Estimate [25]	
Los Angeles*	3.84×10^6	3.02×10^6	- 21
Orange	1.12×10^6	0.82×10^6	- 27
Riverside*	0.25×10^6	0.25×10^6	0
San Bernardino*	0.49×10^6	0.39×10^6	- 20
SCAB	5.70×10^6	4.48×10^6	- 21

*SCAB portion only.

Table 59. South Coast Air Basin VMT Summary for 1975

			SOUTH COAST AIR BASIN		
			NON-FREEWAY VMT	FREEWAY VMT	TOTAL VMT
WINTER					
	WEEK DAY		2.9834E+06	1.3042E+07	1.6026E+07
	WEEK END		2.3634E+06	1.0811E+07	1.3174E+07
SPRING					
	WEEK DAY		3.0738E+06	1.4368E+07	1.7442E+07
	WEEK END		2.4303E+06	1.2453E+07	1.4884E+07
SUMMER					
	WEEK DAY		3.0638E+06	1.5087E+07	1.8151E+07
	WEEK END		2.4545E+06	1.2970E+07	1.5424E+07
FALL					
	WEEK DAY		3.0388E+06	1.3681E+07	1.6720E+07
	WEEK END		2.3188E+06	1.1421E+07	1.3740E+07
ANNUAL AVG.					
	WEEK DAY		3.0399E+06	1.4045E+07	1.7085E+07
	WEEK END		2.3917E+06	1.1914E+07	1.4305E+07
	DAY		2.8547E+06	1.3436E+07	1.6291E+07
PICKUP	GAS	6000	7.0871E+05	3.2573E+06	3.9660E+06
PICKUP	GAS	8500	7.5721E+05	3.4739E+06	4.2312E+06
TRAC.	GAS	10000	4.4909E+04	2.2776E+05	2.7267E+05
TRAC.	DSL	10000	6.7253E+05	3.5686E+06	4.2411E+06
BUS	GAS	10000	4.9074E+04	1.1060E+05	1.5967E+05
BUS	DSL	10000	2.3762E+04	1.0884E+05	1.3261E+05
DUMP	GAS	10000	1.7056E+04	7.0978E+04	8.8034E+04
DUMP	DSL	10000	5.5571E+04	2.3209E+05	2.8766E+05
FLAT.	GAS	6000	3.9843E+04	1.6792E+05	2.0776E+05
FLAT.	GAS	8500	4.2982E+04	1.7690E+05	2.1988E+05
FLAT.	GAS	10000	8.5963E+04	3.6082E+05	4.4678E+05
FLAT.	DSL	10000	2.2046E+04	9.4532E+04	1.1658E+05
TANK	GAS	10000	1.0576E+04	5.2342E+04	6.2917E+04
TANK	DSL	10000	4.3947E+04	2.2636E+05	2.7031E+05
VAN	GAS	6000	3.1702E+04	1.5000E+05	1.8170E+05
VAN	GAS	8500	3.2954E+04	1.5621E+05	1.8916E+05
VAN	GAS	10000	1.0211E+05	4.3147E+05	5.3358E+05
VAN	DSL	10000	2.2046E+04	9.4532E+04	1.1658E+05
TRAC	GAS	NONCAL	5.2191E+03	2.8943E+04	3.4163E+04
TRAC	DSL	NONCAL	5.6540E+04	4.4581E+05	5.3235E+05

Table 60. Los Angeles County VMT Summary (SCAB Portion) for 1975

	LOS ANGELES COUNTY		
	NON-FREEWAY VMT	FREEWAY VMT	TOTAL VMT
WINTER			
WEEK DAY	1.9786E+06	9.0865E+06	1.1065E+07
WEEK END	1.5315E+06	7.1276E+06	8.6592E+06
SPRING			
WEEK DAY	2.0282E+06	9.9231E+06	1.1951E+07
WEEK END	1.5743E+06	8.0931E+06	9.6679E+06
SUMMER			
WEEK DAY	2.0677E+06	1.0283E+07	1.2350E+07
WEEK END	1.6301E+06	6.4253E+06	1.0055E+07
FALL			
WEEK DAY	2.0311E+06	9.4169E+06	1.1448E+07
WEEK END	1.5240E+06	7.3786E+06	8.9026E+06
ANNUAL AVG.			
WEEK DAY	2.0264E+06	9.6773E+06	1.1704E+07
WEEK END	1.5651E+06	7.7562E+06	9.3213E+06
DAY	1.8946E+06	9.1284E+06	1.1023E+07
PICKUP GAS 6000	4.6878E+05	2.2129E+06	2.6817E+06
PICKUP GAS 8500	5.0089E+05	2.3601E+06	2.8610E+06
TRAC. GAS 10000	2.9984E+04	1.5351E+05	1.8350E+05
TRAC. DSL 10000	4.4890E+05	2.4053E+06	2.8542E+06
BUS GAS 10000	3.2542E+04	7.5104E+04	1.0765E+05
BUS DSL 10000	1.5721E+04	7.3902E+04	8.9623E+04
DUMP GAS 10000	1.1338E+04	4.9284E+04	6.0622E+04
DUMP DSL 10000	3.6906E+04	1.5121E+05	1.9812E+05
FLAT. GAS 6000	2.6471E+04	1.1663E+05	1.4310E+05
FLAT. GAS 8500	2.8549E+04	1.2285E+05	1.5140E+05
FLAT. GAS 10000	5.7097E+04	2.5060E+05	3.0770E+05
FLAT. DSL 10000	1.4641E+04	6.5649E+04	8.0290E+04
TANK GAS 10000	7.0574E+03	3.5298E+04	4.2356E+04
TANK DSL 10000	2.9342E+04	1.5260E+05	1.8194E+05
VAN GAS 6000	2.0954E+04	1.0189E+05	1.2285E+05
VAN GAS 8500	2.1779E+04	1.0612E+05	1.2789E+05
VAN GAS 10000	6.7796E+04	2.9969E+05	3.6748E+05
VAN DSL 10000	1.4641E+04	6.5649E+04	8.0290E+04
TRAC GAS NONCAL	3.4739E+03	1.9521E+04	2.2995E+04
TRAC DSL NONCAL	5.7746E+04	3.0050E+05	3.5825E+05

Table 61. Orange County VMT Summary for 1975

			ORANGE COUNTY	
		NON-FREEWAY VMT	FREEWAY VMT	TOTAL VMT
WINTER				
	WEEK DAY	6.0863E+05	2.3837E+06	2.9923E+06
	WEEK END	4.7334E+05	2.1166E+06	2.5900E+06
SPRING				
	WEEK DAY	6.2454E+05	2.6574E+06	3.2820E+06
	WEEK END	4.8673E+05	2.4945E+06	2.9812E+06
SUMMER				
	WEEK DAY	6.3383E+05	2.8670E+06	3.5008E+06
	WEEK END	5.0130E+05	2.6186E+06	3.1199E+06
FALL				
	WEEK DAY	6.2381E+05	2.5825E+06	3.2063E+06
	WEEK END	4.6965E+05	2.3313E+06	2.8009E+06
ANNUAL AVG.				
	WEEK DAY	6.2270E+05	2.6226E+06	3.2454E+06
	WEEK END	4.8275E+05	2.3903E+06	2.8730E+06
	DAY	5.8272E+05	2.5563E+06	3.1390E+06
PICKUP	GAS 6000	1.4428E+05	6.1562E+05	7.5990E+05
PICKUP	GAS 8500	1.5416E+05	6.5657E+05	8.1073E+05
TRAC.	GAS 10000	9.2110E+03	4.4478E+04	5.3689E+04
TRAC.	DSL 10000	1.3791E+05	6.9696E+05	8.3487E+05
BUS	GAS 10000	1.0011E+04	2.0921E+04	3.0931E+04
BUS	DSL 10000	4.8384E+03	2.0605E+04	2.5444E+04
DUMP	GAS 10000	3.4860E+03	1.2910E+04	1.6396E+04
DUMP	DSL 10000	1.1349E+04	4.2171E+04	5.3520E+04
FLAT.	GAS 6000	6.1398E+03	3.0517E+04	3.6657E+04
FLAT.	GAS 8500	8.7791E+03	3.2166E+04	4.0945E+04
FLAT.	GAS 10000	1.7558E+04	6.5584E+04	8.3143E+04
FLAT.	DSL 10000	4.5025E+03	1.7185E+04	2.1688E+04
TANK	GAS 10000	2.1682E+03	1.0206E+04	1.2375E+04
TANK	DSL 10000	9.0137E+03	4.4183E+04	5.3197E+04
VAN	GAS 6000	6.4501E+03	2.8363E+04	3.4813E+04
VAN	GAS 8500	6.7043E+03	2.9533E+04	3.6238E+04
VAN	GAS 10000	2.0850E+04	7.8407E+04	9.9257E+04
VAN	DSL 10000	4.5025E+03	1.7185E+04	2.1688E+04
TRAC	GAS NONCAL	1.0678E+03	5.6348E+03	6.7026E+03
TRAC	DSL NONCAL	1.7741E+04	8.7046E+04	1.0479E+05

Table 62. Riverside County VMT Summary (SCAB Portion) for 1975

	RIVERSIDE COUNTY		
	NON-FREEWAY VMT	FREEWAY VMT	TOTAL VMT
WINTER			
WEEK DAY	1.6230E+05	4.6483E+05	6.2713E+05
WEEK END	1.4920E+05	5.1066E+05	6.5989E+05
SPRING			
WEEK DAY	1.7314E+05	5.5020E+05	7.2334E+05
WEEK END	1.5345E+05	6.4160E+05	7.9505E+05
SUMMER			
WEEK DAY	1.4604E+05	6.3083E+05	7.7687E+05
WEEK END	1.3217E+05	6.7021E+05	8.0239E+05
FALL			
WEEK DAY	1.5624E+05	5.1768E+05	6.7393E+05
WEEK END	1.3412E+05	5.5966E+05	7.2378E+05
ANNUAL AVG.			
WEEK DAY	1.5943E+05	5.4089E+05	7.0032E+05
WEEK END	1.4224E+05	6.0304E+05	7.4527E+05
DAY	1.5452E+05	5.5864E+05	7.1316E+05
PICKUP GAS 6000	3.9262E+04	1.3609E+05	1.7535E+05
PICKUP GAS 8500	4.1931E+04	1.4515E+05	1.8708E+05
TRAC. GAS 10000	2.3274E+03	9.7412E+03	1.2069E+04
TRAC. DSL 10000	3.4929E+04	1.5246E+05	1.8739E+05
BUS GAS 10000	2.6717E+03	4.6367E+03	7.3084E+03
BUS DSL 10000	1.3143E+03	4.5642E+03	5.8785E+03
DUMP GAS 10000	9.1272E+02	2.6574E+03	3.5701E+03
DUMP DSL 10000	2.9937E+03	8.6954E+03	1.1689E+04
FLAT. GAS 6000	2.1403E+03	6.2912E+03	8.4315E+03
FLAT. GAS 8500	2.3133E+03	6.6215E+03	8.9348E+03
FLAT. GAS 10000	4.6266E+03	1.3510E+04	1.8136E+04
FLAT. DSL 10000	1.1879E+03	3.5411E+03	4.7290E+03
TANK GAS 10000	5.5019E+02	2.2324E+03	2.7825E+03
TANK DSL 10000	2.2780E+03	9.6745E+03	1.1953E+04
VAN GAS 6000	1.7651E+03	6.2679E+03	8.0330E+03
VAN GAS 8500	1.8364E+03	6.5301E+03	8.3665E+03
VAN GAS 10000	5.5106E+03	1.6162E+04	2.1673E+04
VAN DSL 10000	1.1879E+03	3.5411E+03	4.7290E+03
TRAC GAS NONCAL	2.7665E+02	1.2326E+03	1.5093E+03
TRAC DSL NONCAL	4.5049E+03	1.9042E+04	2.3547E+04

Table 63. San Bernardino County VMT Summary (SCAB Portion) for 1975

	SAN BERNARDINO COUNTY		
	NON-FREEWAY VMT	FREEWAY VMT	TOTAL VMT
WINTER			
WEEK DAY	2.3390E+05	1.1074E+06	1.3413E+06
WEEK END	2.0932E+05	1.0560E+06	1.2653E+06
SPRING			
WEEK DAY	2.4789E+05	1.2374E+06	1.4853E+06
WEEK END	2.1527E+05	1.2241E+06	1.4393E+06
SUMMER			
WEEK DAY	2.1616E+05	1.3069E+06	1.5231E+06
WEEK END	1.9085E+05	1.2557E+06	1.4466E+06
FALL			
WEEK DAY	2.2768E+05	1.1643E+06	1.3919E+06
WEEK END	1.9108E+05	1.1213E+06	1.3123E+06
ANNUAL AVG.			
WEEK DAY	2.3141E+05	1.2040E+06	1.4354E+06
WEEK END	2.0163E+05	1.1643E+06	1.3659E+06
DAY	2.2290E+05	1.1926E+06	1.4155E+06
PICKUP GAS 6000	5.6386E+04	2.9264E+05	3.4902E+05
PICKUP GAS 8500	6.0224E+04	3.1210E+05	3.7232E+05
TRAC. GAS 10000	3.3861E+03	2.0034E+04	2.3420E+04
TRAC. DSL 10000	5.0795E+04	3.1387E+05	3.6467E+05
BUS GAS 10000	3.8498E+03	9.9379E+03	1.3788E+04
BUS DSL 10000	1.8881E+03	9.7725E+03	1.1661E+04
DUMP GAS 10000	1.3195E+03	6.1268E+03	7.4463E+03
DUMP DSL 10000	4.3224E+03	2.0014E+04	2.4337E+04
FLAT. GAS 6000	3.0920E+03	1.4479E+04	1.7571E+04
FLAT. GAS 8500	3.3407E+03	1.5256E+04	1.8597E+04
FLAT. GAS 10000	6.6813E+03	3.1118E+04	3.7800E+04
FLAT. DSL 10000	1.7150E+03	8.1565E+03	9.8715E+03
TANK GAS 10000	7.9983E+02	4.6047E+03	5.4045E+03
TANK DSL 10000	3.3141E+03	1.9904E+04	2.3218E+04
VAN GAS 6000	2.5326E+03	1.3474E+04	1.6006E+04
VAN GAS 8500	2.6345E+03	1.4031E+04	1.6666E+04
VAN GAS 10000	7.9537E+03	3.7210E+04	4.5164E+04
VAN DSL 10000	1.7150E+03	8.1565E+03	9.8715E+03
TRAC GAS NONCAL	4.0070E+02	2.5547E+03	2.9554E+03
TRAC DSL NONCAL	6.5482E+03	3.9213E+04	4.5761E+04

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APPENDIX A

HEAVY-DUTY VEHICLE INPUT DATA

This section lists the input data unique to heavy-duty vehicles that was used to develop the inventory. The significance of each set of data is explained in the text of the report. The data are presented in two formats that may be confusing. Figure A-1 explains the format for Annual Average Mileage, Vehicle Population Distribution by Year, and Emission Factors. Figure A-2 explains the format for HDV Factors (that is, HDV grid square hourly traffic distribution). Emission factors labeled "ARB" are those produced by the California Air Resources Board (except for SO_x factors which were determined by TRW), [13]. Those labeled "EPA" are those recommended by the U. S. Environmental Protection Agency (AP-42, Supplement 5) [5].

AVERAGE ANNUAL MILEAGE

1	2	3	4	5	6	7	8	9	10 ← Body Type	
16350	19700	78600	78600	78600	78600	19700	19700	16350	19700	1976
15190	19700	78600	78600	78600	78600	19700	19700	15190	19700	1975
13650	19700	78600	78600	78600	78600	19700	19700	13650	19700	1974
12000	18000	72000	72000	72000	72000	18000	18000	12000	18000	1973
10450	18000	72000	72000	72000	72000	18000	18000	10450	18000	1972
9060	15100	60200	60200	60200	60200	15100	15100	9060	15100	1971
7770	15100	60200	60200	60200	60200	15100	15100	7770	15100	1970
6610	11500	45700	45700	45700	45700	11500	11500	6610	11500	1969
5570	11500	45700	45700	45700	45700	11500	11500	5570	11500	1968
4650	10000	39900	39900	39900	39900	10000	10000	4650	10000	1967
3860	10000	39900	39900	39900	39900	10000	10000	3860	10000	1966
3189	7370	29400	29400	29400	29400	7370	7370	3189	7370	1965
2640	7370	29400	29400	29400	29400	7370	7370	2640	7370	1964
2220	7370	29400	29400	29400	29400	7370	7370	2220	7370	1963
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370	1962
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370	1961
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370	Pre-1961
11	12	13	14	15	16	17	18	19	20 ← Body Type	
19700	19700	19700	78600	16350	19700	19700	19700	78600	78600	
19700	19700	19700	78600	15190	19700	19700	19700	78600	78600	
19700	19700	19700	78600	13650	19700	19700	19700	78600	78600	
18000	18000	18000	72000	12000	18000	18000	18000	72000	72000	
18000	18000	18000	72000	10450	18000	18000	18000	72000	72000	
15100	15100	15100	60200	9060	15100	15100	15100	60200	60200	
15100	15100	15100	60200	7770	15100	15100	15100	60200	60200	
11500	11500	11500	45700	6610	11500	11500	11500	45700	45700	
11500	11500	11500	45700	5570	11500	11500	11500	45700	45700	
10000	10000	10000	39900	4650	10000	10000	10000	39900	39900	
10000	10000	10000	39900	3860	10000	10000	10000	39900	39900	
7370	7370	7370	29400	3189	7370	7370	7370	29400	29400	
7370	7370	7370	29400	2640	7370	7370	7370	29400	29400	
7370	7370	7370	29400	2220	7370	7370	7370	29400	29400	
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400	
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400	
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400	

Figure A-1. Data Input Format for Annual Average Mileage, Vehicle Population Distribution and Emission Factors

HDV FACTOR FOR GRID TYPE 101 ON WEEKDAYS

1	2	3	4	5	6	7	8	9	10	
.0191	.0203	.0202	.3164	.0017	.0017	.0000	.0000	.0000	.0000	0100
.0217	.0232	.0230	.3602	.0020	.0020	.0000	.0000	.0000	.0000	0200
.0226	.0241	.0239	.3743	.0021	.0021	.0000	.0000	.0000	.0000	0300
.0214	.0228	.0226	.3546	.0020	.0020	.0000	.0000	.0000	.0000	0400
.0196	.0209	.0208	.3256	.0018	.0018	.0000	.0000	.0000	.0000	0500
.0179	.0191	.0189	.2966	.0016	.0016	.0000	.0000	.0000	.0000	0600
.0918	.0979	.0049	.0762	.0032	.0032	.0034	.0111	.0081	.0085	0700
.0814	.0868	.0043	.0676	.0028	.0028	.0030	.0099	.0071	.0075	0800
.0773	.0824	.0041	.0642	.0027	.0027	.0029	.0094	.0068	.0072	0900
.0795	.0848	.0042	.0660	.0028	.0027	.0030	.0096	.0070	.0074	1000
.0807	.0860	.0043	.0670	.0028	.0028	.0030	.0098	.0071	.0075	1100
.0824	.0878	.0044	.0684	.0029	.0028	.0031	.0100	.0072	.0076	1200
.0840	.0896	.0045	.0698	.0029	.0029	.0031	.0102	.0074	.0078	1300
.0862	.0920	.0046	.0716	.0030	.0030	.0032	.0105	.0076	.0080	1400
.0848	.0904	.0045	.0704	.0029	.0029	.0032	.0103	.0074	.0079	1500
.0792	.0845	.0042	.0658	.0028	.0027	.0030	.0096	.0070	.0073	1600
.0729	.0778	.0039	.0606	.0025	.0025	.0027	.0088	.0064	.0068	1700
.0667	.0711	.0035	.0553	.0023	.0023	.0025	.0081	.0059	.0062	1800
.0945	.1008	.0050	.0784	.0020	.0019	.0000	.0000	.0000	.0000	1900
.1037	.1106	.0055	.0861	.0022	.0021	.0000	.0000	.0000	.0000	2000
.1141	.1217	.0061	.0947	.0024	.0023	.0000	.0000	.0000	.0000	2100
.1160	.1237	.0062	.0962	.0025	.0024	.0000	.0000	.0000	.0000	2200
.0162	.0173	.0171	.2684	.0015	.0015	.0000	.0000	.0000	.0000	2300
.0163	.0173	.0172	.2698	.0015	.0015	.0000	.0000	.0000	.0000	2400

Body Type

Hour-of-day, 24-hour clock

Figure A-2. Data Input Format for HDV Factors (HDV Grid Square Hourly Traffic Distribution)

	Body Type		Fuel Type	No. of Vehicles In SCAB	Average Trips Per Day	% Cold Start	% Hot Start	% Hot Cruise
1	PICK-UP	6001-8500 GVW	GAS	77982	9.3	20.0	27.0	53.0
2	PICK-UP	8501-10000 GVW	GAS	69330	9.5	20.0	27.0	53.0
3	TRACTOR	10000+ GVW	GAS	3433	9.5	20.0	27.0	53.0
4	TRACTOR	10000+ GVW	DIESEL	13454	9.5	20.0	27.0	53.0
5	BUS	10000+ GVW	GAS	5723	9.5	20.0	27.0	53.0
6	BUS	10000+ GVW	DIESEL	1437	9.5	20.0	27.0	53.0
7	DUMP	10000+ GVW	GAS	2417	9.5	20.0	27.0	53.0
8	DUMP	10000+ GVW	DIESEL	1969	9.5	20.0	27.0	53.0
9	FLATBED	6001-8500 GVW	GAS	6854	9.3	20.0	27.0	53.0
10	FLATBED	8501-10000 GVW	GAS	6019	9.5	20.0	27.0	53.0
11	FLATBED	10000+ GVW	GAS	12263	9.5	20.0	27.0	53.0
12	FLATBED	10000+ GVW	DIESEL	798	9.5	20.0	27.0	53.0
13	TANK	10000+ GVW	GAS	781	9.5	20.0	27.0	53.0
14	TANK	10000+ GVW	DIESEL	842	9.5	20.0	27.0	53.0
15	VAN	6001-8500 GVW	GAS	3567	9.3	20.0	27.0	53.0
16	VAN	8501-10000 GVW	GAS	3122	9.5	20.0	27.0	53.0
17	VAN	10000+ GVW	GAS	14668	9.5	20.0	27.0	53.0
18	VAN	10000+ GVW	DIESEL	805	9.5	20.0	27.0	53.0
*19	TRACTOR	NONCAL 10000+	GAS	429	9.5	20.0	27.0	53.0
*20	TRACTOR	NONCAL 10000+	DIESEL	1680	9.5	20.0	27.0	53.0
				227,573				

All Medium-Duty Vehicles - Gas 88,403
All Heavy-Duty Vehicles - Gas 118,185
All Heavy-Duty Vehicles-Diesel 20,985
227,573

*Registered in a state other than California. See Section 4.

Table A-1. Vehicle Population and Other Data

Body Type	Vehicles per County LA	ORANGE	RIV.	SB
1	50236	15721	4562	7463
2	44662	13977	4056	6635
3	2886	381	57	109
4	10523	1815	431	685
5	4766	590	145	222
6	1089	313	0	35
7	1624	515	102	176
8	1368	372	89	140
9	4981	1089	339	445
10	4375	956	297	391
11	9467	1755	470	571
12	577	101	39	81
13	553	117	50	61
14	712	61	18	51
15	2719	622	84	142
16	2379	545	74	124
17	11701	2200	265	502
18	725	41	10	29
*19	360	48	7	14
*20	1313	227	54	86
	157,016	41,466	11,149	17,962

Total - 227,573

*Registered in a state other than California. See Section 4.

Table A-2. Vehicles Registered In Each County

Table A-3 Average Annual Mileage

1	2	3	4	5	6	7	8	9	10
16350	19700	78600	78600	78600	78600	19700	19700	16350	19700
15190	19700	78600	78600	78600	78600	19700	19700	15190	19700
13650	19700	78600	78600	78600	78600	19700	19700	13650	19700
12000	18000	72000	72000	72000	72000	18000	18000	12000	18000
10450	18000	72000	72000	72000	72000	18000	18000	10450	18000
9060	15100	60200	60200	60200	60200	15100	15100	9060	15100
7770	15100	60200	60200	60200	60200	15100	15100	7770	15100
6610	11500	45700	45700	45700	45700	11500	11500	6610	11500
5570	11500	45700	45700	45700	45700	11500	11500	5570	11500
4650	10000	39900	39900	39900	39900	10000	10000	4650	10000
3860	10000	39900	39900	39900	39900	10000	10000	3860	10000
3189	7370	29400	29400	29400	29400	7370	7370	3189	7370
2640	7370	29400	29400	29400	29400	7370	7370	2640	7370
2220	7370	29400	29400	29400	29400	7370	7370	2220	7370
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370
2000	7370	29400	29400	29400	29400	7370	7370	2000	7370
11	12	13	14	15	16	17	18	19	20
19700	19700	19700	78600	16350	19700	19700	19700	78600	78600
19700	19700	19700	78600	15190	19700	19700	19700	78600	78600
19700	19700	19700	78600	13650	19700	19700	19700	78600	78600
18000	18000	18000	72000	12000	18000	18000	18000	72000	72000
18000	18000	18000	72000	10450	18000	18000	18000	72000	72000
15100	15100	15100	60200	9060	15100	15100	15100	60200	60200
15100	15100	15100	60200	7770	15100	15100	15100	60200	60200
11500	11500	11500	45700	6610	11500	11500	11500	45700	45700
11500	11500	11500	45700	5570	11500	11500	11500	45700	45700
10000	10000	10000	39900	4650	10000	10000	10000	39900	39900
10000	10000	10000	39900	3860	10000	10000	10000	39900	39900
7370	7370	7370	29400	3189	7370	7370	7370	29400	29400
7370	7370	7370	29400	2640	7370	7370	7370	29400	29400
7370	7370	7370	29400	2220	7370	7370	7370	29400	29400
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400
7370	7370	7370	29400	2000	7370	7370	7370	29400	29400

Table A-4 Vehicle Population Distribution By Year - Winter Season

1	2	3	4	5	6	7	8	9	10
.0165	.0165	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0840	.0840	.0594	.0822	.0888	.0000	.0452	.0755	.0751	.0758
.0893	.0893	.0910	.1496	.0612	.1014	.0834	.1219	.1104	.1118
.1604	.1604	.1271	.1351	.0348	.0821	.0932	.1164	.1381	.1398
.1419	.1420	.1298	.1170	.1236	.0483	.0965	.1049	.1272	.1156
.1050	.1050	.0866	.1008	.0792	.3527	.0749	.0925	.0462	.0467
.1094	.1094	.1379	.0952	.1622	.3188	.1258	.1484	.1226	.1242
.0365	.0303	.0380	.0347	.0468	.0097	.0497	.0370	.0474	.0399
.0334	.0281	.0352	.0328	.0432	.0097	.0460	.0350	.0432	.0369
.0301	.0259	.0326	.0298	.0396	.0097	.0423	.0315	.0390	.0340
.0269	.0237	.0298	.0268	.0360	.0097	.0387	.0285	.0349	.0312
.0237	.0215	.0270	.0239	.0324	.0097	.0354	.0255	.0307	.0281
.0205	.0193	.0242	.0209	.0300	.0048	.0317	.0220	.0266	.0263
.0173	.0171	.0214	.0179	.0264	.0048	.0281	.0190	.0223	.0224
.0147	.0153	.0191	.0160	.0228	.0048	.0248	.0170	.0191	.0201
.0131	.0142	.0178	.0150	.0216	.0048	.0232	.0160	.0171	.0186
.0773	.0980	.1231	.1023	.1514	.0290	.1611	.1089	.1001	.1286
11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0000	.0000	.0154	.0158	.0080	.0000	.0000	.0000
.0665	.0592	.0880	.1250	.0811	.0823	.0849	.0073	.0594	.0822
.0973	.1036	.1121	.2231	.1406	.1423	.1297	.0880	.0910	.1496
.1179	.1097	.1045	.1355	.1303	.1677	.1495	.1248	.1271	.1351
.1343	.0974	.1045	.0771	.0943	.0955	.1111	.1198	.1298	.1170
.0935	.1541	.1249	.0806	.0786	.0797	.0854	.1541	.0866	.1008
.1138	.1603	.1058	.0771	.0968	.0983	.1166	.1430	.1379	.0952
.0390	.0345	.0365	.0304	.0389	.0328	.0325	.0391	.0380	.0347
.0362	.0321	.0340	.0292	.0356	.0306	.0301	.0379	.0352	.0328
.0333	.0296	.0315	.0257	.0320	.0280	.0278	.0330	.0326	.0298
.0305	.0259	.0290	.0234	.0297	.0253	.0254	.0306	.0298	.0268
.0277	.0234	.0264	.0210	.0254	.0233	.0230	.0269	.0270	.0239
.0249	.0210	.0239	.0187	.0221	.0208	.0208	.0232	.0242	.0209
.0221	.0173	.0214	.0152	.0185	.0186	.0183	.0208	.0214	.0179
.0197	.0160	.0189	.0140	.0154	.0164	.0164	.0183	.0191	.0160
.0183	.0148	.0176	.0129	.0141	.0154	.0154	.0171	.0178	.0150
.1260	.1011	.1210	.0911	.0922	.1062	.1051	.1161	.1231	.1023

Table A-5 Vehicle Population Distribution By Year - Spring Season

1	2	3	4	5	6	7	8	9	10
.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0289	.0289	.0111	.0154	.0174	.0000	.0089	.0145	.0141	.0142
.0964	.0964	.0955	.1607	.0658	.0995	.0866	.1290	.1178	.1192
.1733	.1731	.1337	.1450	.0372	.0846	.0967	.1239	.1474	.1491
.1533	.1534	.1363	.1256	.1328	.0498	.1005	.1115	.1355	.1233
.1134	.1133	.0911	.1081	.0356	.3483	.0778	.0986	.0492	.0498
.1182	.1182	.1450	.1022	.1736	.3184	.1309	.1584	.1308	.1326
.0394	.0327	.0400	.0372	.0509	.0099	.0517	.0398	.0504	.0426
.0360	.0303	.0371	.0351	.0471	.0099	.0479	.0377	.0460	.0393
.0325	.0280	.0342	.0320	.0434	.0099	.0437	.0336	.0417	.0361
.0290	.0256	.0313	.0287	.0385	.0099	.0399	.0305	.0372	.0333
.0255	.0232	.0284	.0256	.0347	.0099	.0366	.0274	.0326	.0301
.0221	.0209	.0255	.0224	.0323	.0050	.0332	.0237	.0283	.0280
.0186	.0185	.0226	.0192	.0285	.0050	.0290	.0201	.0237	.0240
.0158	.0165	.0200	.0170	.0248	.0050	.0257	.0181	.0203	.0214
.0142	.0153	.0187	.0161	.0236	.0050	.0240	.0170	.0182	.0199
.0834	.1057	.1295	.1097	.1638	.0299	.1674	.1162	.1066	.1371

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0123	.0115	.0169	.0242	.0154	.0156	.0159	.0013	.0111	.0154
.1029	.1108	.1197	.2488	.1530	.1556	.1406	.0884	.0955	.1607
.1247	.1172	.1131	.1510	.1964	.1827	.1623	.1250	.1337	.1450
.1420	.1019	.1131	.0857	.1029	.1045	.1206	.1212	.1363	.1256
.0988	.1530	.1340	.0894	.0858	.0872	.0926	.1566	.0911	.1081
.1203	.1681	.1144	.0857	.1054	.1071	.1265	.1439	.1450	.1022
.0412	.0357	.0390	.0338	.0425	.0358	.0352	.0391	.0400	.0372
.0382	.0331	.0364	.0326	.0388	.0335	.0326	.0379	.0371	.0351
.0351	.0306	.0338	.0290	.0351	.0306	.0302	.0328	.0342	.0320
.0322	.0268	.0312	.0266	.0313	.0280	.0276	.0303	.0313	.0287
.0293	.0242	.0286	.0242	.0276	.0254	.0250	.0278	.0284	.0256
.0263	.0217	.0260	.0205	.0239	.0228	.0225	.0227	.0255	.0224
.0233	.0178	.0234	.0169	.0199	.0203	.0199	.0202	.0226	.0192
.0207	.0166	.0208	.0157	.0168	.0179	.0178	.0189	.0200	.0170
.0194	.0153	.0195	.0145	.0154	.0169	.0166	.0177	.0187	.0161
.1333	.1057	.1301	.1014	.0898	.1159	.1141	.1162	.1295	.1097

Table A-6 Vehicle Population Distribution By Year - Summer Season

1	2	3	4	5	6	7	8	9	10
.0000	.0000	.0000	.00000	.0000	.0000	.0000	.0000	.0000	.0000
.0501	.0501	.0276	.0382	.0417	.0000	.0208	.0353	.0349	.0352
.0943	.0943	.0940	.1568	.0650	.1034	.0857	.1267	.1152	.1166
.1694	.1694	.1315	.1416	.0368	.0837	.0957	.1216	.1440	.1460
.1499	.1500	.1340	.1227	.1301	.0493	.0989	.1094	.1325	.1206
.1109	.1109	.0896	.1056	.0834	.3497	.0770	.0961	.0483	.0488
.1155	.1155	.1423	.0999	.1682	.3152	.1290	.1548	.1281	.1298
.0386	.0320	.0393	.0363	.0491	.0099	.0512	.0388	.0494	.0416
.0352	.0296	.0364	.0344	.0454	.0099	.0474	.0368	.0450	.0384
.0318	.0274	.0338	.0312	.0417	.0099	.0433	.0332	.0408	.0354
.0284	.0251	.0307	.0281	.0380	.0099	.0395	.0296	.0364	.0329
.0250	.0227	.0281	.0250	.0344	.0099	.0362	.0266	.0320	.0294
.0217	.0204	.0250	.0219	.0319	.0049	.0329	.0230	.0277	.0274
.0182	.0180	.0221	.0187	.0282	.0049	.0287	.0199	.0233	.0234
.0155	.0161	.0198	.0167	.0245	.0049	.0254	.0179	.0200	.0209
.0139	.0150	.0185	.0157	.0233	.0049	.0237	.0169	.0179	.0195
.0816	.1035	.1273	.1072	.1583	.0296	.1646	.1134	.1045	.1341
11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0304	.0277	.0412	.0585	.0378	.0383	.0394	.0038	.0276	.0382
.1009	.1072	.1171	.2390	.1497	.1520	.1373	.0888	.0940	.1568
.1226	.1135	.1107	.1458	.1923	.1787	.1584	.1249	.1315	.1416
.1395	.1009	.1107	.0824	.1006	.1021	.1176	.1199	.1340	.1227
.0959	.1601	.1287	.0863	.0837	.0850	.0964	.1549	.0846	.1056
.1181	.1664	.1120	.0824	.1029	.1047	.1235	.1437	.1423	.0999
.0404	.0353	.0386	.0335	.0414	.0351	.0344	.0388	.0393	.0363
.0376	.0328	.0360	.0323	.0378	.0325	.0319	.0375	.0364	.0344
.0345	.0303	.0335	.0275	.0341	.0300	.0295	.0338	.0338	.0312
.0316	.0265	.0309	.0251	.0307	.0274	.0269	.0300	.0307	.0281
.0287	.0240	.0283	.0227	.0271	.0248	.0244	.0275	.0281	.0250
.0258	.0214	.0257	.0203	.0234	.0222	.0220	.0238	.0250	.0219
.0229	.0177	.0232	.0167	.0195	.0200	.0194	.0200	.0221	.0187
.0203	.0164	.0193	.0155	.0164	.0174	.0174	.0188	.0198	.0167
.0190	.0151	.0180	.0143	.0149	.0164	.0162	.0175	.0185	.0157
.1308	.1047	.1261	.0930	.0877	.1134	.1113	.1163	.1273	.1072

Table A-7 Vehicle Population Distribution By Year - Fall Season

1	2	3	4	5	6	7	8	9	10
.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0707	.0707	.0435	.0605	.0655	.0000	.0333	.0556	.0552	.0557
.0923	.0923	.0925	.1531	.0631	.1023	.0844	.1238	.1128	.1142
.1659	.1657	.1292	.1383	.0364	.0829	.0942	.1182	.1412	.1427
.1467	.1467	.1318	.1198	.1262	.0488	.0979	.1071	.1299	.1182
.1084	.1084	.0881	.1031	.0813	.3511	.0757	.0945	.0473	.0478
.1130	.1130	.1400	.0975	.1639	.3170	.1276	.1517	.1255	.1270
.0377	.0313	.0386	.0355	.0485	.0098	.0502	.0379	.0483	.0407
.0345	.0290	.0358	.0335	.0449	.0098	.0465	.0359	.0441	.0377
.0311	.0268	.0332	.0306	.0413	.0098	.0428	.0323	.0399	.0347
.0278	.0245	.0304	.0274	.0376	.0098	.0391	.0293	.0356	.0319
.0244	.0222	.0276	.0245	.0340	.0098	.0358	.0263	.0313	.0288
.0212	.0200	.0247	.0214	.0303	.0049	.0321	.0227	.0271	.0268
.0178	.0177	.0219	.0183	.0267	.0049	.0284	.0197	.0228	.0230
.0151	.0158	.0193	.0164	.0231	.0049	.0251	.0172	.0194	.0205
.0136	.0147	.0183	.0153	.0218	.0049	.0235	.0167	.0174	.0190
.0798	.1012	.1251	.1048	.1554	.0293	.1634	.1111	.1022	.1313

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000	.0000
.0481	.0436	.0650	.0922	.0597	.0605	.0625	.0062	.0435	.0605
.0991	.1060	.1146	.2316	.1464	.1489	.1340	.0878	.0925	.1531
.1203	.1122	.1070	.1407	.1877	.1746	.1544	.1248	.1292	.1383
.1369	.0998	.1070	.0792	.0932	.0994	.1149	.1199	.1318	.1198
.0952	.1571	.1287	.0827	.0817	.0832	.0862	.1545	.0881	.1031
.1159	.1608	.1096	.0792	.1007	.1023	.1206	.1433	.1400	.0975
.0397	.0349	.0382	.0319	.0404	.0341	.0336	.0396	.0386	.0355
.0368	.0324	.0344	.0307	.0371	.0319	.0311	.0371	.0358	.0335
.0339	.0299	.0318	.0272	.0335	.0293	.0288	.0334	.0332	.0306
.0311	.0262	.0293	.0248	.0298	.0268	.0262	.0309	.0304	.0274
.0281	.0237	.0268	.0225	.0265	.0247	.0238	.0272	.0276	.0245
.0253	.0212	.0242	.0201	.0229	.0217	.0215	.0235	.0247	.0214
.0225	.0175	.0217	.0154	.0190	.0194	.0189	.0198	.0219	.0183
.0200	.0162	.0191	.0142	.0162	.0172	.0170	.0185	.0193	.0164
.0187	.0150	.0178	.0130	.0148	.0159	.0159	.0173	.0183	.0153
.1284	.1035	.1248	.0946	.0856	.1106	.1086	.1162	.1251	.1048

Table A-8 HDV Factor For Grid Type 101 - Weekdays

1	2	3	4	5	6	7	8	9	10
.0191	.0203	.0202	.3164	.0017	.0017	.0000	.0000	.0000	.0000
.0217	.0232	.0230	.3602	.0020	.0020	.0000	.0000	.0000	.0000
.0226	.0241	.0239	.3743	.0021	.0021	.0000	.0000	.0000	.0000
.0214	.0228	.0226	.3546	.0020	.0020	.0000	.0000	.0000	.0000
.0196	.0209	.0208	.3256	.0018	.0018	.0000	.0000	.0000	.0000
.0179	.0191	.0189	.2966	.0016	.0016	.0000	.0000	.0000	.0000
.0918	.0979	.0049	.0762	.0032	.0032	.0034	.0111	.0081	.0085
.0814	.0868	.0043	.0676	.0028	.0028	.0030	.0099	.0071	.0075
.0773	.0824	.0041	.0642	.0027	.0027	.0029	.0094	.0068	.0072
.0795	.0848	.0042	.0660	.0028	.0027	.0030	.0096	.0070	.0074
.0807	.0860	.0043	.0670	.0028	.0028	.0030	.0098	.0071	.0075
.0824	.0878	.0044	.0684	.0029	.0028	.0031	.0100	.0072	.0076
.0840	.0896	.0045	.0698	.0029	.0029	.0031	.0102	.0074	.0078
.0862	.0920	.0046	.0716	.0030	.0030	.0032	.0105	.0076	.0080
.0848	.0904	.0045	.0704	.0029	.0029	.0032	.0103	.0074	.0079
.0792	.0845	.0042	.0658	.0028	.0027	.0030	.0096	.0070	.0073
.0729	.0778	.0039	.0606	.0025	.0025	.0027	.0088	.0064	.0068
.0667	.0711	.0035	.0553	.0023	.0023	.0025	.0081	.0059	.0062
.0945	.1008	.0050	.0784	.0020	.0019	.0000	.0000	.0000	.0000
.1037	.1106	.0055	.0861	.0022	.0021	.0000	.0000	.0000	.0000
.1141	.1217	.0061	.0947	.0024	.0023	.0000	.0000	.0000	.0000
.1160	.1237	.0062	.0962	.0025	.0024	.0000	.0000	.0000	.0000
.0162	.0173	.0171	.2684	.0015	.0015	.0000	.0000	.0000	.0000
.0163	.0173	.0172	.2698	.0015	.0015	.0000	.0000	.0000	.0000

Table A-8 (Continued) HDV Factor For Grid Type 101-Weekdays

11	12	13	14	15	16	17	18	19	20
0	0	.0046	.0200	.0009	.0009	.0000	.0000	.0025	.0395
0	0	.0052	.0228	.0011	.0011	.0000	.0000	.0029	.0449
0	0	.0054	.0237	.0011	.0011	.0000	.0000	.0030	.0467
0	0	.0051	.0224	.0011	.0011	.0000	.0000	.0028	.0442
0	0	.0047	.0206	.0010	.0010	.0000	.0000	.0026	.0406
0	0	.0043	.0188	.0009	.0009	.0000	.0000	.0024	.0370
.0173	.0046	.0011	.0048	.0042	.0044	.0207	.0046	.0006	.0095
.0154	.0040	.0010	.0043	.0037	.0039	.0184	.0040	.0005	.0084
.0146	.0038	.0009	.0041	.0036	.0037	.0174	.0038	.0005	.0080
.0150	.0039	.0010	.0042	.0037	.0038	.0179	.0039	.0005	.0082
.0152	.0040	.0010	.0042	.0037	.0039	.0182	.0040	.0005	.0084
.0155	.0041	.0010	.0043	.0038	.0040	.0186	.0041	.0005	.0085
.0159	.0042	.0010	.0044	.0039	.0040	.0190	.0042	.0006	.0087
.0163	.0043	.0010	.0045	.0040	.0041	.0195	.0043	.0006	.0089
.0160	.0042	.0010	.0045	.0039	.0041	.0191	.0042	.0006	.0088
.0150	.0039	.0010	.0042	.0036	.0038	.0179	.0039	.0005	.0082
.0138	.0036	.0009	.0038	.0034	.0035	.0165	.0036	.0005	.0076
.0126	.0033	.0008	.0035	.0031	.0032	.0150	.0033	.0004	.0069
.0000	.0000	.0011	.0050	.0043	.0045	.0000	.0000	.0006	.0098
.0000	.0000	.0013	.0054	.0048	.0050	.0000	.0000	.0007	.0107
.0000	.0000	.0014	.0060	.0052	.0055	.0000	.0000	.0007	.0118
.0000	.0000	.0014	.0061	.0053	.0056	.0000	.0000	.0008	.0120
.0000	.0000	.0039	.0170	.0008	.0008	.0000	.0000	.0021	.0335
.0000	.0000	.0039	.0171	.0008	.0008	.0000	.0000	.0021	.0337

Table A-9 HDV Factor For Grid Type 101 - Weekends

1	2	3	4	5	6	7	8	9	10
.0190	.0203	.0201	.3153	.0025	.0025	.0000	.0000	.0000	.0000
.0216	.0231	.0230	.3589	.0029	.0029	.0000	.0000	.0000	.0000
.0225	.0240	.0238	.3730	.0030	.0030	.0000	.0000	.0000	.0000
.0213	.0227	.0225	.3533	.0028	.0028	.0000	.0000	.0000	.0000
.0195	.0209	.0207	.3245	.0026	.0026	.0000	.0000	.0000	.0000
.0178	.0190	.0189	.2956	.0024	.0024	.0000	.0000	.0000	.0000
.1156	.1233	.0061	.0960	.0040	.0040	.0000	.0000	.0000	.0000
.1025	.1093	.0054	.0851	.0036	.0035	.0000	.0000	.0000	.0000
.0973	.1038	.0052	.0808	.0034	.0034	.0000	.0000	.0000	.0000
.1000	.1067	.0053	.0831	.0035	.0035	.0000	.0000	.0000	.0000
.1016	.1083	.0054	.0843	.0035	.0035	.0000	.0000	.0000	.0000
.1037	.1106	.0055	.0861	.0036	.0036	.0000	.0000	.0000	.0000
.1058	.1129	.0056	.0880	.0037	.0037	.0000	.0000	.0000	.0000
.1086	.1158	.0057	.0901	.0038	.0037	.0000	.0000	.0000	.0000
.1067	.1139	.0057	.0886	.0037	.0037	.0000	.0000	.0000	.0000
.0997	.1064	.0052	.0828	.0035	.0034	.0000	.0000	.0000	.0000
.0918	.0980	.0049	.0763	.0032	.0032	.0000	.0000	.0000	.0000
.0839	.0895	.0044	.0697	.0029	.0029	.0000	.0000	.0000	.0000
.0942	.1005	.0050	.0782	.0024	.0024	.0000	.0000	.0000	.0000
.1034	.1103	.0055	.0858	.0027	.0026	.0000	.0000	.0000	.0000
.1138	.1213	.0060	.0945	.0029	.0029	.0000	.0000	.0000	.0000
.1156	.1233	.0061	.0960	.0030	.0029	.0000	.0000	.0000	.0000
.0161	.0172	.0171	.2674	.0021	.0021	.0000	.0000	.0000	.0000
.0162	.0173	.0172	.2689	.0021	.0021	.0000	.0000	.0000	.0000

Table A-9 (Continued) HDV Factor For Grid Type 101 - Weekends

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0046	.0200	.0010	.0010	.0000	.0000	.0025	.0393
.0000	.0000	.0052	.0227	.0011	.0011	.0000	.0000	.0029	.0448
.0000	.0000	.0054	.0236	.0011	.0011	.0000	.0000	.0030	.0465
.0000	.0000	.0051	.0224	.0011	.0011	.0000	.0000	.0028	.0441
.0000	.0000	.0047	.0206	.0010	.0010	.0000	.0000	.0026	.0405
.0000	.0000	.0043	.0187	.0009	.0009	.0000	.0000	.0024	.0369
.0000	.0000	.0014	.0061	.0053	.0055	.0000	.0000	.0008	.0120
.0000	.0000	.0012	.0054	.0047	.0049	.0000	.0000	.0007	.0106
.0000	.0000	.0012	.0051	.0045	.0047	.0000	.0000	.0006	.0101
.0000	.0000	.0012	.0053	.0046	.0048	.0000	.0000	.0007	.0104
.0000	.0000	.0012	.0053	.0047	.0049	.0000	.0000	.0007	.0105
.0000	.0000	.0013	.0055	.0048	.0050	.0000	.0000	.0007	.0107
.0000	.0000	.0013	.0056	.0049	.0051	.0000	.0000	.0007	.0110
.0000	.0000	.0013	.0057	.0050	.0052	.0000	.0000	.0007	.0112
.0000	.0000	.0013	.0056	.0049	.0051	.0000	.0000	.0007	.0111
.0000	.0000	.0012	.0052	.0046	.0048	.0000	.0000	.0007	.0103
.0000	.0000	.0011	.0048	.0042	.0044	.0000	.0000	.0006	.0095
.0000	.0000	.0010	.0044	.0039	.0040	.0000	.0000	.0006	.0087
.0000	.0000	.0011	.0050	.0043	.0045	.0000	.0000	.0006	.0098
.0000	.0000	.0013	.0054	.0048	.0050	.0000	.0000	.0007	.0107
.0000	.0000	.0014	.0060	.0052	.0055	.0000	.0000	.0007	.0118
.0000	.0000	.0014	.0061	.0053	.0056	.0000	.0000	.0008	.0120
.0000	.0000	.0039	.0169	.0008	.0008	.0000	.0000	.0021	.0334
.0000	.0000	.0039	.0170	.0008	.0008	.0000	.0000	.0021	.0335

Table A-10 HDV Factor for Grid Type 102 - Weekdays

1	2	3	4	5	6	7	8	9	10
.0062	.0066	.0065	.1024	.0006	.0006	.0000	.0000	.0000	.0000
.0071	.0076	.0075	.1180	.0007	.0007	.0000	.0000	.0000	.0000
.0080	.0085	.0084	.1321	.0007	.0007	.0000	.0000	.0000	.0000
.0089	.0094	.0094	.1469	.0008	.0008	.0000	.0000	.0000	.0000
.0096	.0103	.0102	.1596	.0009	.0009	.0000	.0000	.0000	.0000
.0101	.0108	.0107	.1674	.0009	.0009	.0000	.0000	.0000	.0000
.0570	.0608	.0030	.0473	.0020	.0020	.0021	.0069	.0050	.0053
.0568	.0605	.0030	.0471	.0020	.0020	.0021	.0069	.0050	.0053
.0565	.0603	.0030	.0469	.0020	.0019	.0021	.0069	.0050	.0052
.0565	.0603	.0030	.0469	.0020	.0019	.0021	.0069	.0050	.0052
.0563	.0600	.0030	.0467	.0020	.0019	.0021	.0068	.0049	.0052
.0563	.0600	.0030	.0467	.0020	.0019	.0021	.0068	.0049	.0052
.0553	.0590	.0029	.0459	.0019	.0019	.0021	.0067	.0049	.0051
.0483	.0515	.0026	.0401	.0017	.0017	.0018	.0059	.0042	.0045
.0423	.0451	.0022	.0351	.0015	.0015	.0016	.0051	.0037	.0039
.0386	.0412	.0020	.0321	.0013	.0013	.0014	.0047	.0034	.0036
.0353	.0376	.0019	.0293	.0012	.0012	.0013	.0043	.0031	.0033
.0326	.0348	.0017	.0271	.0011	.0011	.0012	.0040	.0029	.0030
.0393	.0419	.0021	.0326	.0008	.0008	.0000	.0000	.0000	.0000
.0365	.0389	.0019	.0303	.0008	.0007	.0000	.0000	.0000	.0000
.0344	.0366	.0018	.0285	.0007	.0007	.0000	.0000	.0000	.0000
.0331	.0353	.0018	.0275	.0007	.0007	.0000	.0000	.0000	.0000
.0044	.0047	.0046	.0727	.0004	.0004	.0000	.0000	.0000	.0000
.0053	.0057	.0056	.0883	.0005	.0005	.0000	.0000	.0000	.0000

Table A-10 (Continued) HDV Factor For Grid Type 102 - Weekdays

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0015	.0065	.0003	.0003	.0000	.0000	.0008	.0128
.0000	.0000	.0017	.0075	.0004	.0004	.0000	.0000	.0009	.0147
.0000	.0000	.0019	.0084	.0004	.0004	.0000	.0000	.0010	.0165
.0000	.0000	.0021	.0093	.0004	.0004	.0000	.0000	.0012	.0183
.0000	.0000	.0023	.0101	.0005	.0005	.0000	.0000	.0013	.0199
.0000	.0000	.0024	.0106	.0005	.0005	.0000	.0000	.0013	.0209
.0108	.0028	.0007	.0030	.0026	.0027	.0129	.0028	.0004	.0059
.0107	.0028	.0007	.0030	.0026	.0027	.0128	.0028	.0004	.0059
.0107	.0028	.0007	.0030	.0026	.0027	.0128	.0028	.0004	.0059
.0107	.0028	.0007	.0030	.0026	.0027	.0128	.0028	.0004	.0059
.0106	.0028	.0007	.0030	.0026	.0027	.0127	.0028	.0004	.0058
.0106	.0028	.0007	.0030	.0026	.0027	.0127	.0028	.0004	.0058
.0104	.0027	.0007	.0029	.0025	.0027	.0125	.0027	.0004	.0057
.0091	.0024	.0006	.0025	.0022	.0023	.0109	.0024	.0003	.0050
.0080	.0021	.0005	.0022	.0019	.0020	.0095	.0021	.0003	.0044
.0073	.0019	.0005	.0020	.0018	.0019	.0087	.0019	.0003	.0040
.0067	.0018	.0004	.0019	.0016	.0017	.0080	.0018	.0002	.0037
.0062	.0016	.0004	.0017	.0015	.0016	.0074	.0016	.0002	.0034
.0000	.0000	.0005	.0021	.0018	.0019	.0000	.0000	.0003	.0041
.0000	.0000	.0004	.0019	.0017	.0017	.0000	.0000	.0002	.0038
.0000	.0000	.0004	.0018	.0016	.0016	.0000	.0000	.0002	.0036
.0000	.0000	.0004	.0017	.0015	.0016	.0000	.0000	.0002	.0034
.0000	.0000	.0011	.0046	.0002	.0002	.0000	.0000	.0006	.0091
.0000	.0000	.0013	.0056	.0003	.0003	.0000	.0000	.0007	.0110

Table A-11 HDV Factor For Grid Type 102 - Weekends

1	2	3	4	5	6	7	8	9	10
.0061	.0066	.0065	.1021	.0008	.0008	.0000	.0000	.0000	.0000
.0071	.0076	.0075	.1175	.0009	.0009	.0000	.0000	.0000	.0000
.0079	.0085	.0084	.1316	.0010	.0010	.0000	.0000	.0000	.0000
.0088	.0094	.0093	.1464	.0012	.0012	.0000	.0000	.0000	.0000
.0096	.0102	.0101	.1591	.0013	.0013	.0000	.0000	.0000	.0000
.0100	.0107	.0106	.1668	.0013	.0013	.0000	.0000	.0000	.0000
.0718	.0766	.0038	.0596	.0025	.0025	.0000	.0000	.0000	.0000
.0715	.0762	.0038	.0593	.0025	.0025	.0000	.0000	.0000	.0000
.0712	.0759	.0038	.0591	.0025	.0025	.0000	.0000	.0000	.0000
.0712	.0759	.0038	.0591	.0025	.0025	.0000	.0000	.0000	.0000
.0709	.0756	.0038	.0588	.0025	.0024	.0000	.0000	.0000	.0000
.0709	.0756	.0038	.0588	.0025	.0024	.0000	.0000	.0000	.0000
.0696	.0743	.0037	.0578	.0024	.0024	.0000	.0000	.0000	.0000
.0608	.0649	.0032	.0505	.0021	.0021	.0000	.0000	.0000	.0000
.0532	.0568	.0028	.0442	.0019	.0018	.0000	.0000	.0000	.0000
.0487	.0519	.0026	.0404	.0017	.0017	.0000	.0000	.0000	.0000
.0444	.0474	.0024	.0369	.0015	.0015	.0000	.0000	.0000	.0000
.0411	.0438	.0022	.0341	.0014	.0014	.0000	.0000	.0000	.0000
.0391	.0418	.0021	.0325	.0010	.0010	.0000	.0000	.0000	.0000
.0364	.0388	.0019	.0302	.0009	.0009	.0000	.0000	.0000	.0000
.0342	.0365	.0018	.0284	.0009	.0009	.0000	.0000	.0000	.0000
.0330	.0352	.0017	.0274	.0009	.0008	.0000	.0000	.0000	.0000
.0315	.0336	.0017	.0261	.0008	.0008	.0000	.0000	.0000	.0000
.0382	.0408	.0020	.0317	.0010	.0010	.0000	.0000	.0000	.0000

Table A-11 (Continued) HDV Factor For Grid Type 102 - Weekends

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0015	.0065	.0003	.0003	.0000	.0000	.0008	.0127
.0000	.0000	.0017	.0074	.0004	.0004	.0000	.0000	.0009	.0147
.0000	.0000	.0019	.0083	.0004	.0004	.0000	.0000	.0010	.0164
.0000	.0000	.0021	.0091	.0004	.0004	.0000	.0000	.0012	.0183
.0000	.0000	.0023	.0101	.0005	.0005	.0000	.0000	.0013	.0198
.0000	.0000	.0024	.0106	.0005	.0005	.0000	.0000	.0013	.0208
.0000	.0000	.0009	.0038	.0033	.0034	.0000	.0000	.0005	.0074
.0000	.0000	.0009	.0038	.0033	.0034	.0000	.0000	.0005	.0074
.0000	.0000	.0009	.0037	.0033	.0034	.0000	.0000	.0005	.0074
.0000	.0000	.0009	.0037	.0033	.0034	.0000	.0000	.0005	.0074
.0000	.0000	.0009	.0037	.0033	.0034	.0000	.0000	.0005	.0073
.0000	.0000	.0009	.0037	.0033	.0034	.0000	.0000	.0005	.0073
.0000	.0000	.0008	.0037	.0032	.0033	.0000	.0000	.0005	.0072
.0000	.0000	.0007	.0032	.0028	.0029	.0000	.0000	.0004	.0063
.0000	.0000	.0006	.0028	.0025	.0026	.0000	.0000	.0004	.0055
.0000	.0000	.0006	.0026	.0022	.0023	.0000	.0000	.0003	.0050
.0000	.0000	.0005	.0023	.0020	.0021	.0000	.0000	.0003	.0046
.0000	.0000	.0005	.0022	.0019	.0020	.0000	.0000	.0003	.0043
.0000	.0000	.0005	.0021	.0018	.0019	.0000	.0000	.0003	.0041
.0000	.0000	.0004	.0019	.0017	.0017	.0000	.0000	.0002	.0038
.0000	.0000	.0004	.0018	.0016	.0016	.0000	.0000	.0002	.0036
.0000	.0000	.0004	.0017	.0015	.0015	.0000	.0000	.0002	.0034
.0000	.0000	.0004	.0017	.0015	.0015	.0000	.0000	.0002	.0033
.0000	.0000	.0005	.0020	.0018	.0018	.0000	.0000	.0003	.0040

Table A-12 HDV Factor for Grid Type 103 - Weekdays

1	2	3	4	5	6	7	8	9	10
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0145	.0155	.0008	.0120	.0005	.0005	.0005	.0018	.0013	.0013
.0184	.0196	.0010	.0153	.0004	.0004	.0000	.0000	.0000	.0000
.0184	.0196	.0010	.0153	.0004	.0004	.0000	.0000	.0000	.0000
.0184	.0196	.0010	.0153	.0004	.0004	.0000	.0000	.0000	.0000
.0184	.0196	.0010	.0153	.0004	.0004	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000
.0026	.0027	.0027	.0424	.0002	.0002	.0000	.0000	.0000	.0000

Table A-12 (Continued) HDV Factor For Grid Type 103 - Weekdays

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0027	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053

Table A-13 HDV Factor For Grid Type 103 - Weekends

1	2	3	4	5	6	7	8	9	10
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0182	.0195	.0010	.0152	.0006	.0006	.0000	.0000	.0000	.0000
.0183	.0196	.0010	.0152	.0005	.0005	.0000	.0000	.0000	.0000
.0183	.0196	.0010	.0152	.0005	.0005	.0000	.0000	.0000	.0000
.0183	.0196	.0010	.0152	.0005	.0005	.0000	.0000	.0000	.0000
.0183	.0196	.0010	.0152	.0005	.0005	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000
.0025	.0027	.0027	.0422	.0003	.0003	.0000	.0000	.0000	.0000

Table A-13 (Continued) HDV Factor For Grid Type 103 on Weekends

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0010	.0008	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053
.0000	.0000	.0006	.0027	.0001	.0001	.0000	.0000	.0003	.0053

Table A-14 HDV Factor For Grid Type 104 - Weekdays

1	2	3	4	5	6	7	8	9	10
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0001	.0000	.0000	.0000
.0041	.0044	.0002	.0034	.0001	.0001	.0002	.0005	.0004	.0004
.0041	.0044	.0002	.0034	.0001	.0001	.0002	.0005	.0004	.0004
.0104	.0111	.0006	.0086	.0004	.0004	.0004	.0013	.0009	.0010
.0138	.0147	.0007	.0114	.0005	.0005	.0005	.0017	.0012	.0013
.0147	.0157	.0008	.0122	.0005	.0005	.0005	.0018	.0013	.0014
.0140	.0149	.0007	.0116	.0005	.0005	.0005	.0017	.0012	.0013
.0128	.0137	.0007	.0106	.0004	.0004	.0005	.0016	.0011	.0012
.0118	.0126	.0006	.0098	.0004	.0004	.0004	.0014	.0010	.0011
.0104	.0111	.0006	.0086	.0004	.0004	.0004	.0013	.0009	.0010
.0085	.0090	.0004	.0070	.0003	.0003	.0003	.0010	.0007	.0008
.0065	.0070	.0003	.0053	.0054	.0002	.0002	.0008	.0006	.0006
.0041	.0044	.0002	.0034	.0001	.0001	.0002	.0005	.0004	.0004
.0052	.0056	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0056	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0056	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0056	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000

Table A-14 (Continued) HDV Factor For Grid Type 104 - Weekdays

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0008	.0002	.0000	.0002	.0002	.0002	.0009	.0002	.0000	.0004
.0008	.0002	.0000	.0002	.0002	.0002	.0009	.0002	.0000	.0004
.0020	.0005	.0001	.0005	.0005	.0005	.0023	.0005	.0001	.0011
.0026	.0007	.0002	.0007	.0006	.0007	.0031	.0007	.0001	.0014
.0028	.0007	.0002	.0008	.0007	.0007	.0033	.0007	.0001	.0015
.0026	.0007	.0002	.0007	.0006	.0007	.0032	.0007	.0001	.0015
.0024	.0006	.0002	.0007	.0006	.0006	.0029	.0006	.0001	.0013
.0022	.0006	.0001	.0006	.0005	.0006	.0027	.0006	.0001	.0012
.0020	.0005	.0001	.0005	.0005	.0005	.0023	.0005	.0001	.0011
.0016	.0004	.0001	.0004	.0004	.0004	.0019	.0004	.0001	.0009
.0012	.0003	.0001	.0003	.0003	.0003	.0015	.0003	.0000	.0007
.0008	.0002	.0000	.0002	.0002	.0002	.0009	.0002	.0000	.0004
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015

Table A-15 HDV Factor For Grid Type 104 - Weekends

1	2	3	4	5	6	7	8	9	10
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0002	.0002	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0002	.0002	.0000	.0000	.0000	.0000
.0131	.0139	.0007	.0109	.0005	.0005	.0000	.0000	.0000	.0000
.0173	.0185	.0009	.0144	.0006	.0006	.0000	.0000	.0000	.0000
.0186	.0198	.0010	.0154	.0006	.0006	.0000	.0000	.0000	.0000
.0176	.0188	.0009	.0146	.0006	.0006	.0000	.0000	.0000	.0000
.0161	.0172	.0009	.0134	.0006	.0006	.0000	.0000	.0000	.0000
.0149	.0159	.0008	.0124	.0005	.0005	.0000	.0000	.0000	.0000
.0131	.0139	.0007	.0109	.0005	.0005	.0000	.0000	.0000	.0000
.0107	.0114	.0006	.0088	.0004	.0004	.0000	.0000	.0000	.0000
.0082	.0088	.0004	.0068	.0003	.0003	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0052	.0055	.0003	.0043	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000
.0007	.0008	.0008	.0120	.0001	.0001	.0000	.0000	.0000	.0000

Table A-15 (Continued) HDV Factor for Grid Type 104 - Weekends

11	12	13	14	15	16	17	18	19	20
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0000	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0000	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0002	.0007	.0006	.0006	.0000	.0000	.0001	.0014
.0000	.0000	.0002	.0009	.0008	.0008	.0000	.0000	.0001	.0018
.0000	.0000	.0002	.0010	.0009	.0009	.0000	.0000	.0001	.0019
.0000	.0000	.0002	.0009	.0008	.0008	.0000	.0000	.0001	.0018
.0000	.0000	.0002	.0008	.0007	.0008	.0000	.0000	.0001	.0017
.0000	.0000	.0002	.0008	.0007	.0007	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0007	.0006	.0006	.0000	.0000	.0001	.0014
.0000	.0000	.0001	.0006	.0005	.0005	.0000	.0000	.0001	.0011
.0000	.0000	.0001	.0004	.0004	.0004	.0000	.0000	.0001	.0009
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0001	.0003	.0002	.0002	.0000	.0000	.0000	.0005
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015
.0000	.0000	.0002	.0008	.0000	.0000	.0000	.0000	.0001	.0015

Table A-16 Emission Factors for Exhaust Hydrocarbons (ARB)

1	2	3	4	5	6	7	8	9	10
2.17	2.93	2.93	3.73	2.93	3.73	2.93	3.73	2.17	2.93
2.17	2.93	2.93	3.73	2.93	3.73	2.93	3.73	2.17	2.93
5.5	11.0	11.0	4.15	11.0	4.15	11.0	4.15	5.5	11.0
6.1	11.0	11.0	4.15	11.0	4.15	11.0	4.15	6.1	11.0
6.7	11.7	11.7	4.15	11.7	4.15	11.7	4.15	6.7	11.7
7.3	16.2	16.2	4.15	16.2	4.15	16.2	4.15	7.3	16.2
7.9	16.2	16.2	4.15	16.2	4.15	16.2	4.15	7.9	16.2
8.5	16.2	16.2	4.15	16.2	4.15	16.2	4.15	8.5	16.2
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
8.7	33.6	33.6	4.15	33.6	4.15	33.6	4.15	8.7	33.6
11	12	13	14	15	16	17	18	19	20
2.93	3.73	2.93	3.73	2.17	2.93	2.93	3.73	13.1	4.6
2.93	3.73	2.93	3.73	2.17	2.93	2.93	3.73	13.2	4.6
11.0	4.15	11.0	4.15	5.5	11.0	11.0	4.15	13.3	4.6
11.0	4.15	11.0	4.15	6.1	11.0	11.0	4.15	13.9	4.6
11.7	4.15	11.7	4.15	6.7	11.7	11.7	4.15	14.0	4.6
16.2	4.15	16.2	4.15	7.3	16.2	16.2	4.15	14.1	4.6
16.2	4.15	16.2	4.15	7.9	16.2	16.2	4.15	14.2	4.6
16.2	4.15	16.2	4.15	8.5	16.2	16.2	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6
33.6	4.15	33.6	4.15	8.7	33.6	33.6	4.15	35.4	4.6

Table A-17 Emission Factors for Carbon Monoxide (ARB)

1	2	3	4	5	6	7	8	9	10
30.3	129	129	23.7	129	23.7	129	23.7	30.3	129
30.3	129	129	23.7	129	23.7	129	23.7	30.3	129
58.0	142	142	23.7	142	23.7	142	23.7	58.0	142
60.8	142	142	23.7	142	23.7	142	23.7	63.6	142
63.6	166	166	23.7	166	23.7	166	23.7	66.4	166
66.4	191	191	23.7	191	23.7	191	23.7	69.2	191
69.2	191	191	23.7	191	23.7	191	23.7	72.0	191
72.0	191	191	23.7	191	23.7	191	23.7	117.0	191
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
117.0	239	239	23.7	239	23.7	239	23.7	117.0	239
11	12	13	14	15	16	17	18	19	20
129	23.7	129	23.7	30.3	129	129	23.7	167	20.8
129	23.7	129	23.7	30.3	129	129	23.7	168	20.8
142	23.7	142	23.7	58.0	142	142	23.7	169	20.8
142	23.7	142	23.7	60.8	142	142	23.7	188	20.8
166	23.7	166	23.7	63.6	166	166	23.7	188	20.8
191	23.7	191	23.7	66.4	191	191	23.7	188	20.8
191	23.7	191	23.7	69.2	191	191	23.7	188	20.8
191	23.7	191	23.7	72.0	191	191	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8
239	23.7	239	23.7	117.0	239	239	23.7	238	20.8

Table A-18 Emission Factors for Nitrogen Oxides (ARB)

1	2	3	4	5	6	7	8	9	10
3.93	11.6	11.6	19.4	11.6	19.4	11.6	19.4	3.93	11.6
3.93	11.6	11.6	19.4	11.6	19.4	11.6	19.4	3.93	11.6
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
7.1	11.8	11.8	20.1	11.8	20.1	11.8	20.1	7.1	11.8
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
4.1	6.65	6.65	20.1	6.65	20.1	6.65	20.1	4.1	6.65
11	12	13	14	15	16	17	18	19	20
11.6	19.4	11.6	19.4	3.93	11.6	11.6	19.4	12.5	20.9
11.6	19.4	11.6	19.4	3.93	11.6	11.6	19.4	12.6	20.9
11.6	20.1	11.8	20.1	7.1	11.8	11.8	20.1	12.6	20.9
11.8	20.1	11.8	20.1	7.1	11.8	11.8	20.1	12.7	20.9
11.8	20.1	11.8	20.1	7.1	11.8	11.8	20.1	12.7	20.9
11.8	20.1	11.8	20.1	7.1	11.8	11.8	20.1	12.8	20.9
11.8	20.1	11.8	20.1	7.1	11.8	11.8	20.1	12.8	20.9
11.8	20.1	11.8	20.1	7.1	11.8	11.8	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9
6.65	20.1	6.65	20.1	4.1	6.65	6.65	20.1	6.8	20.9

Table A-19 Emission Factors for Sulfur Dioxide (ARB)

1	2	3	4	5	6	7	8	9	10
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
0.33	0.55	0.55	2.8	0.55	0.55	0.55	2.8	0.33	0.55
11	12	13	14	15	16	17	18	19	20
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8
0.55	2.8	0.55	2.8	0.33	0.55	0.55	2.8	0.55	2.8

Table A-20 Emission Factors for Particulates (ARB)

1	2	3	4	5	6	7	8	9	10
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
.54	1.11	1.61	2.20	1.31	1.70	1.41	1.80	.64	1.41
11	12	13	14	15	16	17	18	19	20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20
1.41	1.80	1.41	1.80	.54	1.11	1.21	1.60	1.61	2.20

Table A-21 Emission Factors for Diurnal Evaporative Hydrocarbons (ARB)

1	2	3	4	5	6	7	8	9	10
1.5	4.5	4.5	0	4.5	0	4.5	0	1.5	4.5
1.5	4.5	4.5	0	4.5	0	4.5	0	1.5	4.5
1.5	4.5	4.5	0	4.5	0	4.5	0	1.5	4.5
1.5	4.5	4.5	0	4.5	0	4.5	0	1.5	4.5
1.5	42.3	42.3	0	42.3	0	42.3	0	1.5	42.3
4.2	42.3	42.3	0	42.3	0	42.3	0	4.2	42.3
4.2	42.3	42.3	0	42.3	0	42.3	0	4.2	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
14.1	42.3	42.3	0	42.3	0	42.3	0	14.1	42.3
11	12	13	14	15	16	17	18	19	20
4.5	0	4.5	0	1.5	4.5	4.5	0	78.0	0
4.5	0	4.5	0	1.5	4.5	4.5	0	78.0	0
4.5	0	4.5	0	1.5	4.5	4.5	0	78.0	0
4.5	0	4.5	0	1.5	4.5	4.5	0	78.0	0
42.3	0	42.3	0	1.5	42.3	42.3	0	78.0	0
42.3	0	42.3	0	4.2	42.3	42.3	0	78.0	0
42.3	0	42.3	0	4.2	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0
42.3	0	42.3	0	14.1	42.3	42.3	0	78.0	0

Table A-22 Emission Factors for Hotsoak Evaporative Hydrocarbons (ARB)

1	2	3	4	5	6	7	8	9	10
5.3	5.3	5.3	0	5.3	0	5.3	0	5.3	5.3
5.3	5.3	5.3	0	5.3	0	5.3	0	5.3	5.3
5.3	5.3	5.3	0	5.3	0	5.3	0	5.3	5.3
5.3	5.3	5.3	0	5.3	0	5.3	0	5.3	5.3
5.3	9.9	9.9	0	9.9	0	9.9	0	5.3	9.9
5.3	9.9	9.9	0	9.9	0	9.9	0	5.3	9.9
5.3	9.9	9.9	0	9.9	0	9.9	0	5.3	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
9.9	9.9	9.9	0	9.9	0	9.9	0	9.9	9.9
11	12	13	14	15	16	17	18	19	20
5.3	0	5.3	0	5.3	5.3	5.3	0	14.7	0.0
5.3	0	5.3	0	5.3	5.3	5.3	0	14.7	0.0
5.3	0	5.3	0	5.3	5.3	5.3	0	14.7	0.0
5.3	0	5.3	0	5.3	5.3	5.3	0	14.7	0.0
9.9	0	9.9	0	5.3	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	5.3	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	5.3	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0
9.9	0	9.9	0	9.9	9.9	9.9	0	14.7	0.0

Table A-23 Emission Factors for Crankcase Hydrocarbons (ARB)

1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0.8	0.8	0.8	0	0.8	0	0.8	0	0.8	0.8
0.8	0.8	0.8	0	0.8	0	0.8	0	0.8	0.8
0.8	0.8	0.8	0	0.8	0	0.8	0	0.8	0.8
4.1	5.7	5.7	0	5.7	0	5.7	0	4.1	5.7
11	12	13	14	15	16	17	18	19	20
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	0.0	0.0
0	0	0	0	0	0	0	0	5.7	0.0
0	0	0	0	0	0	0	0	5.7	0.0
0	0	0	0	0	0	0	0	5.7	0.0
0	0	0	0	0	0	0	0	5.7	0.0
0.8	0	0.8	0	0.8	0.8	0.8	0	5.7	0.0
0.8	0	0.8	0	0.8	0.8	0.8	0	5.7	0.0
0.8	0	0.8	0	0.8	0.8	0.8	0	5.7	0.0
5.7	0	5.7	0	4.1	5.7	5.7	0	5.7	0.0

Table A-24 Emission Factors for Exhaust Hydrocarbons (EPA)

1	2	3	4	5	6	7	8	9	10
2.7	6.0	6.0	4.6	6.0	4.6	6.0	4.6	2.7	6.0
3.0	6.0	6.0	4.6	6.0	4.6	6.0	4.6	3.0	6.0
4.4	13.3	13.3	4.6	13.3	4.6	13.3	4.6	4.4	13.3
4.8	13.9	13.9	4.6	13.9	4.6	13.9	4.6	4.8	13.9
5.5	14.0	14.0	4.6	14.0	4.6	14.0	4.6	5.5	14.0
6.2	14.1	14.1	4.6	14.1	4.6	14.1	4.6	6.2	14.1
7.2	14.2	14.2	4.6	14.2	4.6	14.2	4.6	7.2	14.2
7.7	35.4	35.4	4.6	35.4	4.6	35.4	4.6	7.7	35.4
10.3	35.4	35.4	4.6	35.4	4.6	35.4	4.6	10.3	35.4
13.6	35.4	35.4	4.6	35.4	4.6	35.4	4.6	13.6	35.4
13.6	35.4	35.4	4.6	35.4	4.6	35.4	4.6	13.6	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
17.0	35.4	35.4	4.6	35.4	4.6	35.4	4.6	17.0	35.4
11	12	13	14	15	16	17	18	19	20
6.0	4.6	6.0	4.6	2.7	6.0	6.0	4.6	13.1	4.6
6.0	4.6	6.0	4.6	3.0	6.0	6.0	4.6	13.2	4.6
13.3	4.6	13.3	4.6	4.4	13.3	13.3	4.6	13.3	4.6
13.9	4.6	13.9	4.6	4.8	13.9	13.9	4.6	13.9	4.6
14.0	4.6	14.0	4.6	5.5	14.0	14.0	4.6	14.0	4.6
14.1	4.6	14.1	4.6	6.2	14.1	14.1	4.6	14.1	4.6
14.2	4.6	14.2	4.6	7.2	14.2	14.2	4.6	14.2	4.6
35.4	4.6	35.4	4.6	7.7	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	10.3	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	13.6	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	13.6	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6
35.4	4.6	35.4	4.6	17.0	35.4	35.4	4.6	35.4	4.6

Table A-25 Emission Factors for Carbon Monoxide (EPA)

1	2	3	4	5	6	7	8	9	10
27.0	152.0	152.0	28.7	152.0	28.7	152.0	28.7	27.0	155.0
28.5	153.0	153.0	28.7	153.0	28.7	153.0	28.7	28.5	156.0
47.2	169.0	169.0	28.7	169.0	28.7	169.0	28.7	47.2	172.0
49.4	188.0	188.0	28.7	188.0	28.7	188.0	28.7	49.4	188.0
61.9	188.0	188.0	28.7	188.0	21.3	188.0	28.7	61.9	188.0
63.5	188.0	188.0	28.7	188.0	21.3	188.0	28.7	63.5	188.0
63.5	188.0	188.0	28.7	188.0	21.3	188.0	28.7	63.5	188.0
78.3	238.0	238.0	28.7	238.0	21.3	238.0	28.7	78.3	238.0
80.5	238.0	238.0	28.7	238.0	21.3	238.0	28.7	80.5	238.0
108.2	238.0	238.0	28.7	238.0	21.3	238.0	28.7	108.2	238.0
108.2	238.0	238.0	28.7	238.0	21.3	238.0	28.7	108.2	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
125.0	238.0	238.0	28.7	238.0	21.3	238.0	28.7	125.0	238.0
11	12	13	14	15	16	17	18	19	20
152.0	28.7	152.0	28.7	27.0	152.0	152.0	28.7	167	20.8
153.0	28.7	153.0	28.7	28.5	153.0	153.0	28.7	168	20.8
169.0	28.7	169.0	28.7	47.2	169.0	169.0	28.7	169	20.8
188.0	28.7	188.0	28.7	49.4	188.0	188.0	28.7	188	20.8
188.0	28.7	188.0	28.7	61.9	188.0	188.0	28.7	188	20.8
188.0	28.7	188.0	28.7	63.5	188.0	188.0	28.7	188	20.8
188.0	28.7	188.0	28.7	63.5	188.0	188.0	28.7	188	20.8
238.0	28.7	238.0	28.7	78.3	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	80.5	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	108.2	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	108.2	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8
238.0	28.7	238.0	28.7	125.0	238.0	238.0	28.7	238	20.8

Table A-26 Emission Factors for Nitrogen Oxides (EPA)

1	2	3	4	5	6	7	8	9	10
3.7	11.4	11.4	18.1	11.4	20.9	11.4	18.1	3.7	11.4
3.7	11.4	11.4	8.1	11.4	20.9	11.4	18.1	3.7	11.4
3.1	12.6	12.6	20.9	12.6	20.9	12.6	20.9	3.1	12.6
5.0	12.7	12.7	20.9	12.7	20.9	12.7	20.9	5.0	12.7
4.4	12.7	12.7	20.9	12.7	21.5	12.7	20.9	4.4	12.7
4.6	12.8	12.8	20.9	12.8	21.5	12.8	20.9	4.6	12.8
5.2	12.8	12.8	20.9	12.8	21.5	12.8	20.9	5.2	12.8
5.3	6.8	6.8	20.9	6.8	21.5	6.8	20.9	5.3	6.8
4.9	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.9	6.8
4.5	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.5	6.8
4.5	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.5	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
4.2	6.8	6.8	20.9	6.8	21.5	6.8	20.9	4.2	6.8
11	12	13	14	15	16	17	18	19	20
11.4	18.1	11.4	18.1	3.7	11.4	11.4	18.1	12.5	20.9
11.4	18.1	11.4	18.1	3.7	11.4	11.4	18.1	12.6	20.9
12.6	20.9	12.6	20.9	3.1	12.6	12.6	20.9	12.6	20.9
12.7	20.9	12.7	20.9	5.0	12.7	12.7	20.9	12.7	20.9
12.7	20.9	12.7	20.9	4.4	12.7	12.7	20.9	12.7	20.9
12.8	20.9	12.8	20.9	4.6	12.8	12.8	20.9	12.8	20.9
12.8	20.9	12.8	20.9	5.2	12.8	12.8	20.9	12.8	20.9
6.8	20.9	6.8	20.9	5.3	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.9	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.5	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.5	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9
6.8	20.9	6.8	20.9	4.2	6.8	6.8	20.9	6.8	20.9

Table A-27 Emission Factors for Sulfur Dioxide (EPA)

1	2	3	4	5	6	7	8	9	10
0.18	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.18	0.36
0.18	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.18	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
0.34	0.36	0.36	2.8	0.36	2.8	0.36	2.8	0.34	0.36
11	12	13	14	15	16	17	18	19	20
0.36	2.8	0.36	2.8	0.18	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.18	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8
0.36	2.8	0.36	2.8	0.34	0.36	0.36	2.8	0.36	2.8

Table A-28 Emission Factors for Particulates (EPA)

1	2	3	4	5	6	7	8	9	10
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
0.54	1.11	1.61	2.2	1.31	1.7	1.41	1.8	0.64	1.41
11	12	13	14	15	16	17	18	19	20
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2
1.41	1.8	1.41	1.80	0.54	1.11	1.21	1.6	1.61	2.2

Table A-29 Emission Factors for Diurnal Evaporative Hydrocarbons (EPA)

1	2	3	4	5	6	7	8	9	10
12.1	12.1	12.1	0.0	12.1	0.0	12.1	0.0	12.1	12.1
12.1	12.1	12.1	0.0	12.1	0.0	12.1	0.0	12.1	12.1
12.1	12.1	12.1	0.0	12.1	0.0	12.1	0.0	12.1	12.1
12.1	12.1	12.1	0.0	12.1	0.0	12.1	0.0	12.1	12.1
12.1	78.0	78.0	0.0	78.0	0.0	78.0	0.0	12.1	78.0
16.3	78.0	78.0	0.0	78.0	0.0	78.0	0.0	16.3	78.0
16.3	78.0	78.0	0.0	78.0	0.0	78.0	0.0	16.3	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	78.0	0.0	78.0	0.0	26.0	78.0
26.0	78.0	78.0	0.0	12.1	0.0	78.0	0.0	26.0	78.0
11	12	13	14	15	16	17	18	19	20
12.1	0.0	12.1	0.0	12.1	12.1	12.1	0.0	78.0	0.0
12.1	0.0	12.1	0.0	12.1	12.1	12.1	0.0	78.0	0.0
12.1	0.0	12.1	0.0	12.1	12.1	12.1	0.0	78.0	0.0
12.1	0.0	12.1	0.0	12.1	12.1	12.1	0.0	78.0	0.0
78.0	0.0	78.0	0.0	12.1	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	16.3	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	16.3	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0
78.0	0.0	78.0	0.0	26.0	78.0	78.0	0.0	78.0	0.0

Table A-30 Emission Factors for Hotsoak Evaporative Hydrocarbons (EPA)

1	2	3	4	5	6	7	8	9	10
12.0	12.0	12.0	0.0	12.0	0.0	12.0	0.0	12.0	12.0
12.0	12.0	12.0	0.0	12.0	0.0	12.0	0.0	12.0	12.0
12.0	12.0	12.0	0.0	12.0	0.0	12.0	0.0	12.0	12.0
12.0	12.0	12.0	0.0	12.0	0.0	12.0	0.0	12.0	12.0
10.9	14.7	14.7	0.0	14.7	0.0	14.7	0.0	10.9	12.0
10.9	14.7	14.7	0.0	14.7	0.0	14.7	0.0	10.9	12.0
10.9	14.7	14.7	0.0	14.7	0.0	14.7	0.0	10.9	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
14.7	14.7	14.7	0.0	14.7	0.0	14.7	0.0	14.7	12.0
11	12	13	14	15	16	17	18	19	20
12.0	0.0	12.0	0.0	12.0	12.0	12.0	0.0	14.7	0.0
12.0	0.0	12.0	0.0	12.0	12.0	12.0	0.0	14.7	0.0
12.0	0.0	12.0	0.0	12.0	12.0	12.0	0.0	14.7	0.0
12.0	0.0	12.0	0.0	12.0	12.0	12.0	0.0	14.7	0.0
14.7	0.0	14.7	0.0	10.9	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	10.9	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	10.9	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0
14.7	0.0	14.7	0.0	14.7	14.7	14.7	0.0	14.7	0.0

Table A-31 Emission Factors for Crankcase Hydrocarbons

1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
1.5	5.7	5.7	0	5.7	0	5.7	0	1.5	5.7
1.5	5.7	5.7	0	5.7	0	5.7	0	1.5	5.7
1.5	5.7	5.7	0	5.7	0	5.7	0	1.5	5.7
2.9	5.7	5.7	0	5.7	0	5.7	0	2.9	5.7
11	12	13	14	15	16	17	18	19	20
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	5.7	0
0	0	0	0	0	0	0	0	5.7	0
0	0	0	0	0	0	0	0	5.7	0
0	0	0	0	0	0	0	0	5.7	0
5.7	0	5.7	0	1.5	5.7	5.7	0	5.7	0
5.7	0	5.7	0	1.5	5.7	5.7	0	5.7	0
5.7	0	5.7	0	1.5	5.7	5.7	0	5.7	0
5.7	0	5.7	0	2.9	5.7	5.7	0	5.7	0

APPENDIX B

TOTAL TRAFFIC AND BASIN DATA

This section lists the data that were used to characterize total traffic flow and the traffic patterns in the South Coast Air Basin. The significance of these data is explained in the text of the report and in [2]. The formats are either explained in Appendix A or are self-explanatory.

Table B-1. Season and Weekday/Weekend Disaggregating Factors

	NON - FREEWAY GRID SQUARE TYPE					FREEWAY GRID SQUARE TYPE				
	1	2	3	4	5	1	2	3	4	5
SEASON FACTORS										
WINTER	.9740	.9740	.9740	1.0180	1.0180	.9500	.9752	.8888	.9452	.8368
SPRING	.9960	.9960	.9960	1.0860	1.0860	1.0076	1.0296	1.0360	1.0340	1.0128
SUMMER	1.0264	1.0264	1.0264	.9160	.9160	1.0428	1.0488	1.0636	1.0428	1.1988
FALL	1.0036	1.0036	1.0036	.9800	.9800	.9996	.9464	.9916	.9780	.9516
WEEKDAY - WEEKEND FACTORS										
WINTER										
WEEKDAY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
WEEKEND	.7722	.7722	.7722	.8830	.8830	.8356	.8187	.7341	.9540	1.2040
SPRING										
WEEKDAY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
WEEKEND	.7765	.7765	.7765	.8512	.8512	.8512	.8378	.7942	.9652	1.2845
SUMMER										
WEEKDAY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
WEEKEND	.7895	.7895	.7895	.8693	.8693	.8592	.8457	.8086	.9670	1.1410
FALL										
WEEKDAY	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
WEEKEND	.7510	.7510	.7510	.8245	.8245	.8211	.8112	.7447	.9375	1.2565

Table B-2. Weekday Hourly Disaggregating Factors

WEEKDAY HOUR	NON - FREEWAY GRID SQUARE TYPE 1	2	3	4	5	FREEWAY GRID SQUARE TYPE 1	2	3	4	5
1	.015	.015	.015	.006	.006	.016	.014	.013	.011	.014
2	.008	.008	.008	.004	.004	.008	.008	.007	.007	.012
3	.005	.005	.005	.003	.003	.005	.005	.005	.006	.010
4	.004	.004	.004	.003	.003	.004	.004	.005	.005	.010
5	.005	.005	.005	.006	.006	.005	.005	.006	.007	.013
6	.014	.014	.014	.020	.020	.015	.013	.016	.013	.021
7	.052	.052	.052	.043	.043	.057	.049	.057	.034	.036
8	.070	.070	.070	.051	.051	.075	.069	.084	.071	.047
9	.063	.063	.063	.050	.050	.066	.064	.066	.061	.052
10	.055	.055	.055	.053	.053	.053	.058	.048	.053	.059
11	.052	.052	.052	.062	.062	.050	.055	.046	.054	.063
12	.054	.054	.054	.069	.069	.051	.056	.048	.057	.062
13	.054	.054	.054	.071	.071	.051	.056	.048	.059	.059
14	.056	.056	.056	.069	.069	.052	.057	.049	.058	.060
15	.062	.062	.062	.074	.074	.059	.063	.054	.063	.062
16	.072	.072	.072	.082	.082	.072	.069	.074	.072	.068
17	.073	.073	.073	.080	.080	.072	.067	.086	.078	.073
18	.070	.070	.070	.068	.068	.070	.065	.084	.077	.067
19	.058	.058	.058	.053	.053	.059	.057	.059	.057	.054
20	.043	.043	.043	.043	.043	.044	.046	.041	.044	.043
21	.033	.033	.033	.035	.035	.033	.034	.031	.036	.036
22	.031	.031	.031	.026	.026	.030	.031	.029	.034	.032
23	.029	.029	.029	.018	.018	.029	.030	.024	.025	.026
24	.024	.024	.024	.011	.011	.024	.025	.020	.019	.020

Table B-3. Weekend Hourly Disaggregating Factors

WEEKEND HOUR	NON - FREEWAY GRID SQUARE TYPE 1	2	3	4	5	FREEWAY GRID SQUARE TYPE 1	2	3	4	5
1	.031	.031	.031	.014	.014	.029	.031	.027	.019	.016
2	.021	.021	.021	.009	.009	.019	.021	.018	.013	.012
3	.017	.017	.017	.005	.005	.015	.016	.013	.010	.009
4	.009	.009	.009	.003	.003	.008	.008	.008	.007	.008
5	.007	.007	.007	.005	.005	.006	.006	.006	.006	.008
6	.009	.009	.009	.010	.010	.009	.009	.010	.009	.012
7	.018	.018	.018	.020	.020	.019	.018	.020	.018	.020
8	.026	.026	.026	.031	.031	.027	.027	.028	.030	.028
9	.035	.035	.035	.044	.044	.036	.036	.037	.039	.041
10	.044	.044	.044	.059	.059	.046	.045	.048	.053	.053
11	.052	.052	.052	.072	.072	.055	.054	.056	.061	.063
12	.060	.060	.060	.079	.079	.062	.062	.066	.066	.066
13	.066	.066	.066	.080	.080	.065	.067	.066	.068	.065
14	.066	.066	.066	.077	.077	.064	.066	.066	.068	.065
15	.064	.064	.064	.076	.076	.063	.064	.067	.070	.070
16	.067	.067	.067	.076	.076	.066	.066	.069	.073	.075
17	.066	.066	.066	.072	.072	.065	.066	.070	.074	.078
18	.064	.064	.064	.065	.065	.065	.065	.068	.072	.075
19	.063	.063	.063	.056	.056	.065	.062	.061	.062	.064
20	.056	.056	.056	.046	.046	.057	.056	.053	.052	.052
21	.045	.045	.045	.036	.036	.046	.045	.045	.042	.041
22	.040	.040	.040	.028	.028	.040	.039	.037	.035	.033
23	.039	.039	.039	.021	.021	.038	.038	.032	.029	.026
24	.035	.035	.035	.018	.018	.034	.035	.027	.023	.019

Table B-4. Coefficients for Light Duty Vehicle Speed Correction Factors for the SCAB - Freeway*

MODEL YEARS	HC**			CO**			NOX**	
	A	B	C	A	B	C	A	B
57-65	0.857	-5.33×10^{-2}	4.89×10^{-4}	0.860	-5.34×10^{-2}	4.87×10^{-4}	0.728	1.39×10^{-2}
66-67	0.806	-4.94×10^{-2}	4.23×10^{-4}	0.907	-5.69×10^{-2}	5.43×10^{-4}	0.733	1.36×10^{-2}
1968	0.969	-5.93×10^{-2}	5.03×10^{-4}	0.949	-5.85×10^{-2}	5.15×10^{-4}	0.775	1.15×10^{-2}
1969	0.946	-5.83×10^{-2}	5.12×10^{-4}	1.25	-7.61×10^{-2}	6.32×10^{-4}	0.775	1.15×10^{-2}
1970	0.765	-4.76×10^{-2}	4.38×10^{-4}	1.23	-7.46×10^{-2}	6.06×10^{-4}	0.698	1.54×10^{-2}
1971	0.793	-4.91×10^{-2}	4.40×10^{-4}	1.15	-6.93×10^{-2}	5.51×10^{-4}	0.679	1.64×10^{-2}

* Equations should not be extended beyond the range of the data (8.74 to 55.27 miles per hour)

** $VIPS = e^{(A+BS+CS^2)}$

*** $VIPS = A+BS$

Table B-5. Coefficients for Light Duty Vehicle Speed Correction Factors for the SCAB - Non-Freeway*

MODEL YEARS	HC**			CO**			NOX**	
		B	C	A	B	C	A	B
57-65	1.20	-8.01×10^{-2}	9.56×10^{-4}	1.18	-7.85×10^{-2}	9.28×10^{-4}	0.912	0.447×10^{-2}
66-67	1.03	-6.72×10^{-2}	7.37×10^{-4}	1.34	-8.14×10^{-2}	1.17×10^{-3}	0.927	0.372×10^{-2}
1968	1.22	-7.89×10^{-2}	8.44×10^{-4}	1.27	-8.42×10^{-2}	9.82×10^{-4}	0.973	1.36×10^{-3}
1969	1.20	-7.79×10^{-2}	8.64×10^{-4}	1.64	-0.108	1.23×10^{-3}	1.00	2.49×10^{-5}
1970	1.12	-7.46×10^{-2}	9.01×10^{-4}	1.64	-0.107	1.19×10^{-3}	0.914	4.39×10^{-3}
1971	1.12	-7.43×10^{-2}	8.69×10^{-4}	1.49	-9.61×10^{-2}	1.03×10^{-3}	0.912	4.51×10^{-3}

* Equations should not be extended beyond the usage of the data (14.75 to 36.77 miles per hour)

** $VIPS = e^{(A+BS+CS^2)}$

*** $VIPS = A+BS$

Table B-6. Seasonal Temperature Variations

Season	Average	High	Low
Winter	54°F	64°F	45°F
Spring	59°F	67°F	52°F
Summer	69°F	76°F	62°F
Fall	65°F	73°F	57°F

APPENDIX C

TRUCK DATA FROM OLSON CHASE CAR PROGRAM

This section contains the data collected on each truck during the Olson chase car program.

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 1

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	75
C.	BODY TYPE (PANEL, DUMP, ETC.)	Tractor & Semi
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	31,000
F.	EMPTY WEIGHT[2]	23,000
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	900 X 120
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	2'
N.	BASE OF OPERATION (CITY, COUNTY)	Orange County

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Chevrolet
B.	MODEL OF ENGINE	427 cu in.
C.	SERIAL NUMBER	
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	25,000
H.	EMISSION CONTROL DEVICES	California Std.
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Del
B.	PRINCIPAL PRODUCTS CARRIED	Furniture
C.	AREA OF OPERATION	Orange County
D.	AVERAGE MILEAGE PER YEAR	20,000
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	200 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	Local
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	30,000
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	6 months
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	No
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Self

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 2

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	1976
C.	BODY TYPE (PANEL, DUMP, ETC.)	Van
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	22,000 approx.
F.	EMPTY WEIGHT[2]	11,000
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	900 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Hydraulic
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12 '
N.	BASE OF OPERATION (CITY, COUNTY)	Orange County

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	T0217ATB
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	4,000
H.	EMISSION CONTROL DEVICES	California Reg. 1976
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural Aspiration

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Delivery
B.	PRINCIPAL PRODUCTS CARRIED	Baked Goods
C.	AREA OF OPERATION	Orange County
D.	AVERAGE MILEAGE PER YEAR	10,000
E.	TOTAL ACCUMULATED MILEAGE	4,000
F.	RANGE WITHOUT REFUELING	200 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	12 gallons
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100% local
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	40,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	6-9 Months
	MILEAGE SINCE LAST TUNEUP	new
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Dealer

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 3

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	International
B.	MODEL YEAR	1973
C.	BODY TYPE (PANEL, DUMP, ETC.)	Closed Van
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	14,000
F.	EMPTY WEIGHT[2]	8,900
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	825 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Hydraulic
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	18"
N.	BASE OF OPERATION (CITY, COUNTY)	Orange County & Los Angeles

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	International
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	10662CHA27507
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	California Standard
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural Aspiration

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Delivery
B.	PRINCIPAL PRODUCTS CARRIED	Liquor
C.	AREA OF OPERATION	Orange County & Los Angeles
D.	AVERAGE MILEAGE PER YEAR	30,000 approx.
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	100 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	6 to 7 mpg
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	50,000 Miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	6 months
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Independent Garage

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 4

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL YEAR	1970
C.	BODY TYPE (PANEL, DUMP, ETC.)	Tractor
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	30,000
F.	EMPTY WEIGHT[2]	13,000
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	1000 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	2 1/2
N.	BASE OF OPERATION (CITY, COUNTY)	Anaheim Orange

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	J44463
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	391
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	90,000
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Nat

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	
B.	PRINCIPAL PRODUCTS CARRIED	Macaroni
C.	AREA OF OPERATION	~~Orange LA, Ri~~verside
D.	AVERAGE MILEAGE PER YEAR	20,000
E.	TOTAL ACCUMULATED MILEAGE	90,000
F.	RANGE WITHOUT REFUELING	500 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	Local
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	30,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	6,000 miles
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	yes
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Independent

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 5

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Mack
B.	MODEL YEAR	1974
C.	BODY TYPE (PANEL, DUMP, ETC.)	Dump
D.	NUMBER OF AXLES AND	3 Truck
	AXLE ARRANGEMENT[1]	2 Trailer
E.	GROSS WEIGHT[2]	80,000 lbs.
F.	EMPTY WEIGHT[2]	28,540
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	1000 X 20"
J.	NUMBER OF TIRES	18
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	11.'6"
N.	BASE OF OPERATION (CITY, COUNTY)	Irwindale Los Angeles

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

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HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Mack
B.	MODEL OF ENGINE	Endt 675
C.	SERIAL NUMBER	21682
D.	FUEL TYPE	Diesel
E.	RATED HORSEPOWER AND RPM	285 H.P. 2,100
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	118,000 miles
H.	EMISSION CONTROL DEVICES	California
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Turbocharged

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Construction
B.	PRINCIPAL PRODUCTS CARRIED	Rock & Sand
C.	AREA OF OPERATION	Los Angeles & Orange Count
D.	AVERAGE MILEAGE PER YEAR	60,000
E.	TOTAL ACCUMULATED MILEAGE	118,000
F.	RANGE WITHOUT REFUELING	350
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	60 gallons per day
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	99
	LONG-HAUL	.01
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	40,000 Miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	As needed
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	Yes
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Owner

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 6

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL YEAR	F 7000 1969
C.	BODY TYPE (PANEL, DUMP, ETC.)	
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	24,485
F.	EMPTY WEIGHT[2]	8,880
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	1000 + 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	20"
N.	BASE OF OPERATION (CITY, COUNTY)	

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Caterpillar
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	K7040E15364
D.	FUEL TYPE	Diesel
E.	RATED HORSEPOWER AND RPM	220 1800 RPM
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	Standard
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural Aspiration

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	
B.	PRINCIPAL PRODUCTS CARRIED	General Commodities
C.	AREA OF OPERATION	
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	275 Miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	125,000 Miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	Daily
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Shop

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 7

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL YEAR	1966
C.	BODY TYPE (PANEL, DUMP, ETC.)	
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	17,500
F.	EMPTY WEIGHT[2]	13,500
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	1100 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	2 1
N.	BASE OF OPERATION (CITY, COUNTY)	East Los Angeles

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural Aspiration

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	
B.	PRINCIPAL PRODUCTS CARRIED	
C.	AREA OF OPERATION	
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	200 mt.
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	100,000
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	Daily
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Self

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 8

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	1969
C.	BODY TYPE (PANEL, DUMP, ETC.)	Semi Tractor & Trailer
D.	NUMBER OF AXLES AND	1
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	16,550
F.	EMPTY WEIGHT[2]	
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	
J.	NUMBER OF TIRES	10
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	4'
N.	BASE OF OPERATION (CITY, COUNTY)	Local

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Natural Aspiration

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	
B.	PRINCIPAL PRODUCTS CARRIED	
C.	AREA OF OPERATION	
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 9

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	1972
C.	BODY TYPE (PANEL, DUMP, ETC.)	Truck-Trailer
D.	NUMBER OF AXLES AND	5
	AXLE ARRANGEMENT[1]	0 00 00
E.	GROSS WEIGHT[2]	62,800
F.	EMPTY WEIGHT[2]	29,810
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	None
I.	TIRE SIZE[3]	1000 X 20
J.	NUMBER OF TIRES	18
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12'6"
N.	BASE OF OPERATION (CITY, COUNTY)	Both

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Detroit
B.	MODEL OF ENGINE	8V-71
C.	SERIAL NUMBER	AV533974
D.	FUEL TYPE	Diesel
E.	RATED HORSEPOWER AND RPM	290 @ 2100
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	438,000 Miles
H.	EMISSION CONTROL DEVICES	None
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Supercharged

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Local Hauls
B.	PRINCIPAL PRODUCTS CARRIED	All Food Products
C.	AREA OF OPERATION	Southern California
D.	AVERAGE MILEAGE PER YEAR	80,000
E.	TOTAL ACCUMULATED MILEAGE	438,000
F.	RANGE WITHOUT REFUELING	625 Miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	33 gallons daily
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100%
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	150,000 Miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	100,000 Miles
	MILEAGE SINCE LAST MINOR MAINTENANCE	68,000 Miles
L.	IS A MAINTENANCE LOG AVAILABLE?	Yes
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Alpha Beta Garage

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 10

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Kurb Olson Ford
B.	MODEL YEAR	1969
C.	BODY TYPE (PANEL, DUMP, ETC.)	Van P400
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	7000
F.	EMPTY WEIGHT[2]	5820
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	None
I.	TIRE SIZE[3]	
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12 inches
N.	BASE OF OPERATION (CITY, COUNTY)	Orange County

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Ford
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	
D.	FUEL TYPE	gasoline
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Delivery
B.	PRINCIPAL PRODUCTS CARRIED	Baked goods
C.	AREA OF OPERATION	Orange County
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 11

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	Weiss
B.	MODEL YEAR	
C.	BODY TYPE (PANEL, DUMP, ETC.)	Pickup
D.	NUMBER OF AXLES AND	1
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	7600 lbs.
F.	EMPTY WEIGHT[2]	5,800 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	None
I.	TIRE SIZE[3]	750-16
J.	NUMBER OF TIRES	4
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Hydraulic-Disc
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	24"
N.	BASE OF OPERATION (CITY, COUNTY)	Orange County

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	None
B.	MODEL OF ENGINE	292 Chevy
C.	SERIAL NUMBER	
D.	FUEL TYPE	Gas
E.	RATED HORSEPOWER AND RPM	250 HP
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	100 Per Day
H.	EMISSION CONTROL DEVICES	Standard
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	
B.	PRINCIPAL PRODUCTS CARRIED	
C.	AREA OF OPERATION	
D.	AVERAGE MILEAGE PER YEAR	20,000
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	200 Miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	10,000 Miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	Oil & Filter every 5 weeks 2,250 miles major
	MILEAGE SINCE LAST TUNEUP	10,000
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Own

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 12

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	White Freight
B.	MODEL YEAR	1969
C.	BODY TYPE (PANEL, DUMP, ETC.)	Cabover
D.	NUMBER OF AXLES AND	3 Axle
	AXLE ARRANGEMENT[1]	2 Axle Pull Trailer
E.	GROSS WEIGHT[2]	80,000
F.	EMPTY WEIGHT[2]	23,300
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	California
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	11-22-5
J.	NUMBER OF TIRES	18
K.	BRAKE TYPE (AIR OR HYDRAULIC)	Air
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	10'
N.	BASE OF OPERATION (CITY, COUNTY)	Long Beach

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	Cummins
B.	MODEL OF ENGINE	335
C.	SERIAL NUMBER	
D.	FUEL TYPE	Diesel
E.	RATED HORSEPOWER AND RPM	335 at 2100
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	50,000
H.	EMISSION CONTROL DEVICES	None
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	Turbocharged

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	Hire
B.	PRINCIPAL PRODUCTS CARRIED	Petroleum
C.	AREA OF OPERATION	State Wide
D.	AVERAGE MILEAGE PER YEAR	250,000
E.	TOTAL ACCUMULATED MILEAGE	million
F.	RANGE WITHOUT REFUELING	550 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	4.825 mpg
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	40
	LONG-HAUL	60
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	35,000
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	Daily
	MILEAGE SINCE LAST MINOR MAINTENANCE	100 miles
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	Shop

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 13

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	1976
C.	BODY TYPE (PANEL, DUMP, ETC.)	VAN
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	
F.	EMPTY WEIGHT[2]	3/4 TON
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	78 X 15
J.	NUMBER OF TIRES	4
K.	BRAKE TYPE (AIR OR HYDRAULIC)	HYDRAULIC
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12 INCHES
N.	BASE OF OPERATION (CITY, COUNTY)	LOS ANGELES

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL OF ENGINE	350
C.	SERIAL NUMBER	
D.	FUEL TYPE	GASOLINE
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	17334
H.	EMISSION CONTROL DEVICES	STANDARD
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	NATURAL

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	MAIL DELIVERY
B.	PRINCIPAL PRODUCTS CARRIED	MAIL
C.	AREA OF OPERATION	LOS ANGELES
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	17334
F.	RANGE WITHOUT REFUELING	
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	20,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	3 MONTHS
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 14

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL YEAR	1976
C.	BODY TYPE (PANEL, DUMP, ETC.)	FLAT BED
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	35,000 lbs.
F.	EMPTY WEIGHT[2]	12,000 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	9 X 20 X 4
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	3 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	L.A. AND ORANGE COUNTY

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL OF ENGINE	350
C.	SERIAL NUMBER	
D.	FUEL TYPE	GASOLINE
E.	RATED HORSEPOWER AND RPM	350
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	18,000 miles
H.	EMISSION CONTROL DEVICES	2
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	NATURAL

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	DELIVERY
B.	PRINCIPAL PRODUCTS CARRIED	STEEL AND PLASTIC PIPES
C.	AREA OF OPERATION	9,000 miles
D.	AVERAGE MILEAGE PER YEAR	18,000 miles
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	DAILY FILL UP
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	50 %
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	50 %
	LONG-HAUL	6 months
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	40,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	FAMILIAN

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 15

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	KENWORTH
B.	MODEL YEAR	1973
C.	BODY TYPE (PANEL, DUMP, ETC.)	TANKER
D.	NUMBER OF AXLES AND	3
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	80,000
F.	EMPTY WEIGHT[2]	23,000
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	11X22X5
J.	NUMBER OF TIRES	18
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	10 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	LONG BEACH

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	CUMMINS
B.	MODEL OF ENGINE	335
C.	SERIAL NUMBER	
D.	FUEL TYPE	DIESEL
E.	RATED HORSEPOWER AND RPM	335 at 2090
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	80,000
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	TURBOCHARGED

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	FOR HIRE
B.	PRINCIPAL PRODUCTS CARRIED	PETROLEUM PRODUCTS
C.	AREA OF OPERATION	STATE WIDE
D.	AVERAGE MILEAGE PER YEAR	200,000
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	530 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	40 %
	LONG-HAUL	60 %
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	35,000
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	DAILY
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	SELF

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 16

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL YEAR	1973
C.	BODY TYPE (PANEL, DUMP, ETC.)	PICK UP
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	7,500 lbs
F.	EMPTY WEIGHT[2]	
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	
J.	NUMBER OF TIRES	4
K.	BRAKE TYPE (AIR OR HYDRAULIC)	HYDRAULIC
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12 in.
N.	BASE OF OPERATION (CITY, COUNTY)	FULLERTON

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL OF ENGINE	350
C.	SERIAL NUMBER	
D.	FUEL TYPE	GASOLINE
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	50,000 miles
H.	EMISSION CONTROL DEVICES	STANDARD
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	NATURAL

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	ROAD CREW SUPERVISION
B.	PRINCIPAL PRODUCTS CARRIED	TOOLS
C.	AREA OF OPERATION	FULLERTON
D.	AVERAGE MILEAGE PER YEAR	15,000 miles
E.	TOTAL ACCUMULATED MILEAGE	50,000 miles
F.	RANGE WITHOUT REFUELING	150 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	30,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	60 DAYS
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	CITY OF FULLERTON

FORM 060191/7.6/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 17

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	INTERNATIONAL
B.	MODEL YEAR	1972
C.	BODY TYPE (PANEL, DUMP, ETC.)	PANEL DELIVERY
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	21,000 lbs
F.	EMPTY WEIGHT[2]	
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	920
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	20 in.
N.	BASE OF OPERATION (CITY, COUNTY)	LOS ANGELES

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	INTERNATIONAL
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	
D.	FUEL TYPE	PROPANE
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	STANDARD
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	NATURAL

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	DELIVERY
B.	PRINCIPAL PRODUCTS CARRIED	DAIRY PRODUCTS
C.	AREA OF OPERATION	L.A. COUNTY
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	100 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	40,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	SELVES

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 18

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL YEAR	1974
C.	BODY TYPE (PANEL, DUMP, ETC.)	DOUBLE SEMI (FLAT BED)
D.	NUMBER OF AXLES AND	3
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	60,000 lbs.
F.	EMPTY WEIGHT[2]	30,000 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	10 X 22
J.	NUMBER OF TIRES	18
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	2
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	11 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	L.A. COUNTY

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	GMC
B.	MODEL OF ENGINE	335
C.	SERIAL NUMBER	
D.	FUEL TYPE	DIESEL
E.	RATED HORSEPOWER AND RPM	335 at 2100
F.	NUMBER OF CYLINDERS	6
G.	ACCUMULATED ENGINE HOURS/MILEAGE	
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	TURBOCHARGED

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	DELIVERY
B.	PRINCIPAL PRODUCTS CARRIED	AEROSPACE PRODUCTS
C.	AREA OF OPERATION	LA. COUNTY
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	
F.	RANGE WITHOUT REFUELING	550 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	20 %
	LONG-HAUL	80 %
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	35,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	DAILY
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	ROCKWELL

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 19

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL YEAR	1975
C.	BODY TYPE (PANEL, DUMP, ETC.)	PICKUP
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	
F.	EMPTY WEIGHT[2]	6100 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	8 X 78 X 15
J.	NUMBER OF TIRES	4
K.	BRAKE TYPE (AIR OR HYDRAULIC)	HYDRAULIC
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	12 in.
N.	BASE OF OPERATION (CITY, COUNTY)	RIVERSIDE COUNTY

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL OF ENGINE	360
C.	SERIAL NUMBER	
D.	FUEL TYPE	GASOLINE
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	36,000 miles
H.	EMISSION CONTROL DEVICES	NATURAL
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	UTILITY SERVICE
B.	PRINCIPAL PRODUCTS CARRIED	HYDROLOGY EQUIPMENT
C.	AREA OF OPERATION	RIVERSIDE COUNTY
D.	AVERAGE MILEAGE PER YEAR	18,000 miles
E.	TOTAL ACCUMULATED MILEAGE	36,000 miles
F.	RANGE WITHOUT REFUELING	150 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	18,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	10,000 miles
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	SELVES

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 20

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL YEAR	1976
C.	BODY TYPE (PANEL, DUMP, ETC.)	FLAT BED
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	20,000 lbs.
F.	EMPTY WEIGHT[2]	8,900 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	NONE
I.	TIRE SIZE[3]	835 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	HYDRAULIC
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	1 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	LOS ANGELES

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	FORD
B.	MODEL OF ENGINE	
C.	SERIAL NUMBER	
D.	FUEL TYPE	GASOLINE
E.	RATED HORSEPOWER AND RPM	
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	30,000
H.	EMISSION CONTROL DEVICES	STANDARD
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	NATURAL

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	DELIVERY
B.	PRINCIPAL PRODUCTS CARRIED	LUMBER
C.	AREA OF OPERATION	LOS ANGELES
D.	AVERAGE MILEAGE PER YEAR	
E.	TOTAL ACCUMULATED MILEAGE	30,000
F.	RANGE WITHOUT REFUELING	100 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	18 months
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	10,000 miles
	MILEAGE SINCE LAST TUNEUP	20,000 miles
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	DEALER

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 21

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FLEXIBLE
B.	MODEL YEAR	1975
C.	BODY TYPE (PANEL, DUMP, ETC.)	BUS
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	20,000 lbs.
F.	EMPTY WEIGHT[2]	35,000 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	
I.	TIRE SIZE[3]	1100 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	11 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	ORANGE COUNTY

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	DETROIT DIESEL
B.	MODEL OF ENGINE	8 V 71
C.	SERIAL NUMBER	
D.	FUEL TYPE	DIESEL
E.	RATED HORSEPOWER AND RPM	2150 RPM
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	75,000
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	LOCAL TRANSIT
B.	PRINCIPAL PRODUCTS CARRIED	PASSENGERS
C.	AREA OF OPERATION	ORANGE COUNTY
D.	AVERAGE MILEAGE PER YEAR	40,000 miles
E.	TOTAL ACCUMULATED MILEAGE	75,000 miles
F.	RANGE WITHOUT REFUELING	575 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	25 gal. daily
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	30,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	4,000 miles
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	SELF

FORM 060191/76/2

HEAVY DUTY VEHICLE DRIVING SURVEY DATA

1 NAME AND ADDRESS OF REGISTERED OWNER

Vehicle 22

2 VEHICLE DESCRIPTION

A.	MANUFACTURER	FLEXIBLE
B.	MODEL YEAR	1973
C.	BODY TYPE (PANEL, DUMP, ETC.)	BUS
D.	NUMBER OF AXLES AND	2
	AXLE ARRANGEMENT[1]	
E.	GROSS WEIGHT[2]	20,000 lbs.
F.	EMPTY WEIGHT[2]	35,000 lbs.
G.	STATE IN WHICH VEHICLE IS REGISTERED (I.E. HOME STATE)	CALIFORNIA
H.	ADD-ON STREAMLINING DEVICES	STANDARD
I.	TIRE SIZE[3]	1100 X 20
J.	NUMBER OF TIRES	6
K.	BRAKE TYPE (AIR OR HYDRAULIC)	AIR
L.	NUMBER OF EXHAUST PIPES	1
M.	APPROXIMATE HEIGHT OF EXHAUST PIPE OPENING(S) ABOVE GROUND	11 ft.
N.	BASE OF OPERATION (CITY, COUNTY)	ORANGE COUNTY

[1] INDICATE TRUCK-TRACTOR AND TRAILER SEPARATELY IF APPROPRIATE

[2] IF TRUCK-TRACTOR COMBINATION, INCLUDE TRAILER

[3] IF DIFFERENT SIZES USED, SPECIFY LOCATION

FORM 060191/76/1

HEAVY DUTY VEHICLE DRIVING SURVEY DATA (CONTINUED)

3 POWER UNIT DESCRIPTION

A.	MANUFACTURER	DETROIT DIESEL
B.	MODEL OF ENGINE	8 V 71
C.	SERIAL NUMBER	
D.	FUEL TYPE	DIESEL
E.	RATED HORSEPOWER AND RPM	2150 RPM
F.	NUMBER OF CYLINDERS	8
G.	ACCUMULATED ENGINE HOURS/MILEAGE	160,000
H.	EMISSION CONTROL DEVICES	
I.	TURBOCHARGED, SUPERCHARGED OR NATURAL ASPIRATION	SUPER CHARGED

4 HISTORICAL INFORMATION

A.	MAJOR USE (CATEGORIES)	EXPRESS TRANSIT
B.	PRINCIPAL PRODUCTS CARRIED	PASSENGERS
C.	AREA OF OPERATION	ORANGE COUNTY
D.	AVERAGE MILEAGE PER YEAR	40,000 miles
E.	TOTAL ACCUMULATED MILEAGE	160,000 miles
F.	RANGE WITHOUT REFUELING	575 miles
G.	FUEL CONSUMPTION (ANNUAL, MONTHLY, DAILY)	25 gal. daily
H.	MILEAGE DISTRIBUTION(%)	
	LOCAL	100 %
	LONG-HAUL	
I.	FREQUENCY OF NORMAL TIRE REPLACEMENT	30,000 miles
J.	FOR GASOLINE POWERED	
	FREQUENCY OF TUNEUP	
	MILEAGE SINCE LAST TUNEUP	
K.	FOR DIESEL POWERED	
	FREQUENCY OF MINOR MAINTENANCE	4,000 miles
	MILEAGE SINCE LAST MINOR MAINTENANCE	
L.	IS A MAINTENANCE LOG AVAILABLE?	
M.	WHO PERFORMS MAINTENANCE? (DEALER, INDEPENDENT GARAGE)	SELF

FORM 060191/76/2

APPENDIX D

DONNELLEY REGISTRATION DATA

This section contains the registration data collected by Donnelley. The number of vehicles shown for each county are those registered in the entire county not just the South Coast Air Basin portion.

TRW TRUCK REGISTRATION
DATE 07/01/77

LOS ANGELES COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
PICKUP	GAS	PRE 1970	27889	28744	43
		1970	7482	10555	13
		1971	5728	10008	8
		1972	7228	13583	2
		1973	7795	15289	1
		1974	7251	8571	
		1975	4894	8055	
		1976	1480	3096	
	DIESEL	PRE 1970	6	4	
		1970	4	4	
		1971	4	1	
		1972	1	5	
		1973	2	2	
		1974	3	3	
		1975		4	
		1976		1	
TRACTOR	GAS	PRE 1970		17	1237
		1970		9	469
		1971			295
		1972		3	454
		1973		6	428
		1974		7	277
		1975		11	195
		1976		10	26
	DIESEL	PRE 1970		1	3824
		1970			1104
		1971			1225
		1972			1372
		1973			1668
		1974			1882
		1975			1124
		1976			221
	UKNOWN	PRE 1970			9
		1970			2
		1971			4
		1972			48
		1973			20
		1974			17
		1975			34
BUS	GAS	PRE 1970		6	291
		1970		2	109
		1971		13	67
		1972		2	102
		1973		3	26
		1974			21
		1975			77
		1976			3
	DIESEL	PRE 1970			15

TRW TRUCK REGISTRATION
DATE 07/01/77

LOS ANGELES COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
BUS	DIESEL	1970			34
		1971			73
		1972			10
		1973			9
		1974			18
		1975			4
		1976			1
	UKNOWN	1972			41
		1973			32
		1974			97
		1975			10
DUMP	GAS	PRE 1970			829
		1970			203
		1971			120
		1972			162
		1973			152
		1974			127
		1975			78
		1976			12
	DIESEL	PRE 1970			512
		1970			214
		1971			129
		1972			118
		1973			147
		1974			181
		1975			110
		1976			7
	UKNOWN	PRE 1970			1
FLAT BED	GAS	PRE 1970		3764	3671
		1970		1154	1116
		1971		445	899
		1972		1220	1333
		1973		1274	1087
		1974		1062	938
		1975		804	711
		1976		215	102
	DIESEL	PRE 1970		2	161
		1970			101
		1971		5	90
		1972		1	61
		1973			69
		1974			66
		1975			50
		1976			11
	UKNOWN	PRE 1970			1
		1973			4
		1974			2
		1975			1

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LOS ANGELES COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
TANK	GAS	PRE 1970		24	200
		1970		2	68
		1971		2	81
		1972		9	61
		1973		9	64
		1974		6	55
		1975		4	41
		1976			7
	DIESEL	PRE 1970			193
		1970			54
		1971			58
		1972			58
		1973			98
		1974			172
		1975			104
		1976			6
	UKNOWN	1972			1
		1973			3
		1974			1
		1975			1
SED DEL	GAS	1971	394		
		1972	164		
		1973	192		
		1974	239		
		1975	38		
VAN	GAS	PRE 1970	609	1632	3713
		1970	45	476	1383
		1971	142	393	1036
		1972	81	464	1319
		1973	24	892	1677
		1974	32	767	1606
		1975	28	501	1133
		1976	3	171	205
	DIESEL	PRE 1970	1	69	211
		1970		30	92
		1971			95
		1972			76
		1973			80
		1974			62
		1975			124
		1976			5
	UKNOWN	PRE 1970			3
		1972			43
		1973			11
		1974			13
		1975			3
COUNTY TOTALS	.....		71759	113412	44834

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ORANGE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
PICKUP	GAS	PRE 1970	7396	8090	9
		1970	1972	3208	5
		1971	1730	3158	3
		1972	2208	4280	1
		1973	2446	4909	
		1974	2522	2861	1
		1975	1645	2672	
		1976	585	1119	
	DIESEL	PRE 1970	2	2	
		1970	1		
		1971	1		
		1972		1	
		1973	1	1	
		1974	2		
		1975		1	
TRACTOR	GAS	PRE 1970		4	139
		1970		2	55
		1971			35
		1972		1	36
		1973		10	57
		1974		2	62
		1975			47
		1976		3	11
	DIESEL	PRE 1970			631
		1970			226
		1971			207
		1972			293
		1973			261
		1974			301
		1975		1	172
		1976		1	27
	UKNOWN	PRE 1970			1
		1970			1
		1971			1
		1973			1
		1974			4
		1975			9
BUS	GAS	PRE 1970		2	44
		1970		1	10
		1972			1
		1973			2
		1974			28
	DIESEL	PRE 1970			3
		1970			31
		1973			8
		1974			3
	UKNOWN	1972			1
		1973			5

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ORANGE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
BUS	UKNOWN	1974			17
DUMP	GAS	PRE 1970			213
		1970			74
		1971			38
		1972			51
		1973			55
		1974			67
		1975			30
	DIESEL	PRE 1970			98
		1970			42
		1971			35
		1972			65
		1973			59
		1974			39
		1975			40
		1976			4
	UKNOWN	1974			2
FLAT BED	GAS	PRE 1970		717	631
		1970		284	192
		1971		88	160
		1972		251	238
		1973		317	258
		1974		246	180
		1975		177	136
		1976		69	11
	DIESEL	PRE 1970			34
		1970			18
		1971			19
		1972			11
		1973			13
		1974			4
		1975			6
	UKNOWN	PRE 1970			1
TANK	GAS	PRE 1970		3	37
		1970		1	6
		1971		1	8
		1972			13
		1973		1	8
		1974			22
		1975			25
		1976			2
	DIESEL	PRE 1970			26
		1970			4
		1971			2
		1972			4
		1973			9
		1974			10

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ORANGE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
TANK	DIESEL	1975			7
		1976			1
SED DEL	GAS	1971	120		
		1972	37		
		1973	43		
		1974	33		
		1975	18		
VAN	GAS	PRE 1970	161	352	650
		1970	48	117	228
		1971	36	102	154
		1972	19	127	254
		1973	11	250	449
		1974	12	141	267
		1975	9	77	221
		1976	3	33	21
	DIESEL	PRE 1970		1	19
		1970			5
		1971			10
		1972			1
		1973			5
		1975			2
	UKNOWN	PRE 1970			2
		1971			1
		1976			1
COUNTY TOTALS			21061	33684	8047

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RIVERSIDE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
PICKUP	GAS	PRE 1970	4664	3512	7
		1970	1252	1308	
		1971	1076	1220	1
		1972	1332	1677	
		1973	1387	2001	
		1974	1206	1035	
		1975	837	1089	1
		1976	277	419	
	DIESEL	PRE 1970	3		
		1970		1	
		1973	1	4	
		1974	1		
		1975		1	
TRACTOR	GAS	PRE 1970		3	40
		1970		5	10
		1971			2
		1972		2	15
		1973		1	9
		1974		1	11
		1975		2	4
		1976			2
	DIESEL	PRE 1970			277
		1970			68
		1971			67
		1972			62
		1973			93
		1974			66
		1975			60
		1976			5
	UKNOWN	PRE 1970			1
		1970			2
		1971			1
		1973			1
		1975			1
BUS	GAS	PRE 1970			19
		1970			1
		1972		1	
		1974			1
	UKNOWN	1974			9
		1976			1
DUMP	GAS	PRE 1970			81
		1970			11
		1971			10
		1972			18
		1973			9
		1974			7
		1975			10

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RIVERSIDE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
DUMP	DIESEL	PRE 1970			30
		1970			25
		1971			13
		1972			19
		1973			20
		1974			10
		1975			8
		1976			1
FLAT BED	GAS	PRE 1970		324	249
		1970		100	71
		1971		45	79
		1972		118	68
		1973		150	94
		1974		98	73
		1975		68	35
		1976		25	3
	DIESEL	PRE 1970			25
		1970			5
		1971			11
		1972		1	4
		1973			4
		1974			6
		1975		1	2
TANK	GAS	PRE 1970		3	31
		1970			6
		1971			9
		1972		3	2
		1973		2	7
		1974			9
		1975		1	7
		1976			1
	DIESEL	PRE 1970			12
		1970			2
		1971			3
		1973			1
		1974			3
		1975			1
	UKNOWN	1973			1
		1974			1
SED DEL	GAS	1971	28		
		1972	19		
		1973	11		
		1974	10		
		1975	1		
VAN	GAS	PRE 1970	24	69	146
		1970		28	64

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RIVERSIDE COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
VAN	GAS	1971	4	20	32
		1972	3	28	37
		1973	1	45	50
		1974	3	21	19
		1975	6	11	20
		1976	1	4	8
	DIESEL	PRE 1970			8
		1971			2
		1973			2
		1974			1
		1976			1
	UKNOWN	1972			1
COUNTY TOTALS	.....		12147	13447	2325

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SAN BERNARDINO COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
PICKUP	GAS	PRE 1970	5591	5186	8
		1970	1519	1888	2
		1971	1251	1900	1
		1972	1487	2472	
		1973	1563	2693	
		1974	1337	1349	
		1975	978	1397	
		1976	342	546	
	DIESEL	PRE 1970	2		
		1970	2	1	
		1972	1		
		1974		2	
TRACTOR	GAS	PRE 1970		2	64
		1970		2	17
		1971			14
		1972			15
		1973		2	14
		1974		2	14
		1975		1	13
	DIESEL	PRE 1970			352
		1970			113
		1971			95
		1972			119
		1973			112
		1974			102
		1975			65
		1976			12
	UKNOWN	PRE 1970			3
		1970			3
		1971			1
		1972			2
		1973			2
		1974			1
BUS	GAS	PRE 1970		4	27
		1970			5
		1971		2	
		1973		1	1
		1974			2
		1975			5
	DIESEL	PRE 1970			3
		1971			1
		1972			1
		1974			1
	UKNOWN	1973			6
DUMP	GAS	PRE 1970			109
		1970			32
		1971			24

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SAN BERNARDINO COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
DUMP	GAS	1972			16
		1973			20
		1974			9
		1975			8
		1976			2
	DIESEL	PRE 1970			64
		1970			29
		1971			14
		1972			16
		1973			17
		1974			20
		1975			12
		1976			1
FLAT BED	GAS	PRE 1970		384	305
		1970		137	83
		1971		56	68
		1972		152	79
		1973		153	82
		1974		99	62
		1975		66	31
		1976		17	2
	DIESEL	PRE 1970			53
		1970			9
		1971			11
		1972			6
		1973			6
		1974			13
		1975			3
		1976			1
TANK	GAS	PRE 1970		2	34
		1970			9
		1971		2	4
		1972		2	11
		1973			7
		1974		1	6
		1975			6
	DIESEL	PRE 1970			17
		1970			7
		1971			10
		1972			3
		1973			10
		1974			9
		1975			7
		1976			1
SED DEL	GAS	1971	58		
		1972	29		
		1973	10		

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SAN BERNARDINO COUNTY

BODY TYPE	FUEL	YEAR	GVW 0-6000	GVW 6001-10,000	GVW OVER 10,000
SED DEL	GAS	1974	17		
		1975	1		
VAN	GAS	PRE 1970	25	98	245
		1970	2	47	91
		1971	5	25	65
		1972	3	32	59
		1973	4	57	69
		1974	4	34	47
		1975	3	31	31
		1976		6	12
	DIESEL	PRE 1970			18
		1970			4
		1971			2
		1972			7
		1973			1
		1975			1
		1976			3
	UKNOWN	PRE 1970			1
COUNTY TOTALS	.....		14234	18851	3200

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