1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1: SUMMERTIME RUNNING NON I/M EXHAUST EMISSION FACTORS AT 75 DEG F

POLLUTANT NAME: REACTIVE ORGANIC GASES UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	19.72	1.77	0.92	19.84	2.15	0.88	21.78	2.49	14.07	2.13	2.05	25.71	4.12	3.59	4.71	5.66	8.68
10	15.77	0.84	0.72	15.87	1.02	0.69	17.41	1.22	9.22	1.40	1.61	16.85	2.70	2.82	3.70	4.10	4.57
15	12.38	0.58	0.58	12.46	0.71	0.56	13.66	0.85	6.30	0.95	1.29	11.51	1.84	2.26	2.97	3.08	3.22
16	11.77	0.56	0.55	11.84	0.68	0.53	12.99	0.81	5.86	0.89	1.24	10.71	1.72	2.17	2.85	2.92	3.07
20	9.55	0.50	0.47	9.61	0.61	0.46	10.53	0.72	4.48	0.68	1.06	8.19	1.31	1.86	2.43	2.40	2.61
25	7.28	0.46	0.40	7.33	0.56	0.38	8.02	0.67	3.33	0.50	0.89	6.08	0.97	1.56	2.04	1.93	2.24
30	5.57	0.43	0.34	5.61	0.52	0.33	6.14	0.62	2.57	0.39	0.76	4.70	0.75	1.33	1.75	1.61	1.95
35	4.42	0.39	0.30	4.46	0.47	0.29	4.87	0.56	2.08	0.31	0.67	3.79	0.61	1.17	1.53	1.39	1.72
40	3.84	0.33	0.27	3.87	0.40	0.26	4.22	0.49	1.74	0.26	0.60	3.19	0.51	1.05	1.37	1.25	1.56
45	3.81	0.28	0.24	3.85	0.33	0.24	4.20	0.42	1.53	0.23	0.55	2.79	0.45	0.96	1.26	1.16	1.47
50	4.35	0.26	0.23	4.39	0.30	0.22	4.79	0.38	1.40	0.21	0.51	2.55	0.41	0.90	1.18	1.11	1.43
55	5.45	0.28	0.22	5.49	0.33	0.21	6.00	0.41	1.33	0.20	0.49	2.43	0.39	0.86	1.13	1.10	1.37
60	7.11	0.42	0.21	7.16	0.52	0.21	7.84	0.60	1.32	0.20	0.48	2.41	0.39	0.84	1.10	1.14	1.21
65	9.33	1.12	0.21	9.40	1.49	0.21	10.30	1.47	1.36	0.21	0.48	2.49	0.40	0.84	1.10	1.21	0.83

POLLUTANT NAME: CARBON MONOXIDE UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	280.89	33.42	4.77	282.19	35.65	4.68	321.17	31.87	231.41	27.94	19.13	432.82	49.25	28.51	35.05	8.20	52.43
10	171.05	18.90	3.29	171.84	19.58	3.23	195.58	17.77	153.96	18.59	13.19	287.96	32.77	19.66	24.17	5.16	25.21
15	110.28	12.99	2.37	110.78	13.49	2.33	126.09	12.32	108.22	13.07	9.52	202.42	23.03	14.19	17.44	3.45	16.55
16	101.70	12.26	2.24	102.17	12.76	2.20	116.28	11.66	101.52	12.26	8.97	189.89	21.61	13.36	16.43	3.21	15.56
20	75.26	10.10	1.79	75.61	10.65	1.76	86.05	9.75	80.37	9.70	7.19	150.33	17.11	10.71	13.17	2.45	12.70
25	54.38	8.44	1.42	54.63	9.04	1.39	62.18	8.28	63.07	7.61	5.68	117.96	13.42	8.47	10.41	1.85	10.39
30	41.59	7.31	1.17	41.79	7.90	1.15	47.56	7.26	52.28	6.31	4.70	97.79	11.13	7.00	8.61	1.48	8.73
35	33.68	6.48	1.01	33.84	6.98	1.00	38.51	6.44	45.80	5.53	4.07	85.66	9.75	6.06	7.45	1.25	7.47
40	28.88	5.89	0.92	29.01	6.27	0.90	33.02	5.81	42.38	5.12	3.69	79.27	9.02	5.49	6.75	1.13	6.59
45	26.21	5.63	0.87	26.33	5.88	0.86	29.96	5.49	41.44	5.00	3.49	77.50	8.82	5.21	6.40	1.08	6.08
50	25.18	5.88	0.86	25.29	6.08	0.85	28.79	5.71	42.81	5.17	3.47	80.06	9.11	5.17	6.35	1.10	5.84
55	25.61	7.12	0.90	25.73	7.44	0.88	29.28	7.02	46.72	5.64	3.60	87.39	9.94	5.37	6.60	1.19	5.65
60	27.58	10.84	0.98	27.70	11.95	0.96	31.53	11.22	53.88	6.50	3.91	100.77	11.47	5.83	7.17	1.37	5.07
65	31.44	23.28	1.11	31.58	28.93	1.09	35.94	26.63	65.64	7.93	4.45	122.77	13.97	6.63	8.16	1.66	3.65

POLLUTANT NAME: OXIDES OF NITROGEN UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	5.06	1.77	2.23	5.61	2.75	2.09	6.12	3.28	5.31	2.61	8.00	8.43	4.87	13.17	19.27	34.36	0.71
10	2.65	1.32	1.85	2.94	2.05	1.74	3.21	2.45	5.58	2.74	6.64	8.86	5.12	10.93	15.99	26.28	0.64
15	1.99	1.05	1.59	2.21	1.64	1.49	2.41	1.96	5.84	2.88	5.70	9.29	5.37	9.39	13.75	21.13	0.66
16	1.93	1.01	1.55	2.14	1.57	1.46	2.34	1.88	5.90	2.90	5.56	9.37	5.42	9.15	13.39	20.35	0.66
20	1.83	0.88	1.42	2.02	1.36	1.33	2.21	1.63	6.11	3.01	5.08	9.72	5.61	8.37	12.24	17.86	0.71
25	1.89	0.77	1.31	2.10	1.20	1.23	2.29	1.43	6.38	3.14	4.69	10.14	5.86	7.72	11.30	15.88	0.79
30	2.12	0.73	1.25	2.35	1.13	1.17	2.56	1.35	6.65	3.27	4.48	10.57	6.11	7.38	10.80	14.83	0.87
35	2.46	0.74	1.24	2.73	1.16	1.16	2.98	1.38	6.92	3.41	4.44	11.00	6.35	7.31	10.71	14.57	0.94

40	2.91	0.82	1.27	3.22	1.28	1.19	3.52	1.53	7.19	3.54	4.56	11.43	6.60	7.51	10.99	15.04	0.99
45	3.44	0.96	1.35	3.81	1.50	1.27	4.17	1.79	7.46	3.67	4.85	11.85	6.85	7.99	11.69	16.33	1.02
50	4.06	1.15	1.49	4.50	1.80	1.40	4.92	2.15	7.73	3.80	5.35	12.28	7.10	8.80	12.88	18.63	1.08
55	4.76	1.40	1.70	5.28	2.20	1.60	5.77	2.63	8.00	3.94	6.11	12.71	7.34	10.05	14.71	22.35	1.20
60	5.55	1.71	2.01	6.15	2.69	1.89	6.71	3.22	8.27	4.07	7.22	13.14	7.59	11.90	17.41	28.19	1.48
65	6.40	2.08	2.47	7.10	3.27	2.32	7.75	3.91	8.54	4.20	8.86	13.56	7.84	14.58	21.34	37.37	2.17

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1 (CONTINUED): SUMMERTIME RUNNING NON I/M EXHAUST EMISSION FACTORS AT 75 DEG F

POLLUTANT NAME: CARBON DIOXIDE UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	1236.45	950.07	0.00	1169.73	1032.81	0.00	1523.92	1559.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	745.66	610.88	0.00	705.43	695.93	0.00	919.03	1035.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	583.92	437.57	0.00	552.41	506.44	0.00	719.68	738.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	564.08	414.19	0.00	533.64	479.56	0.00	695.23	695.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	506.11	344.64	0.00	478.80	397.10	0.00	623.78	561.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	463.73	294.59	0.00	438.71	334.71	0.00	571.55	453.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	441.08	269.73	0.00	417.28	302.58	0.00	543.63	387.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	431.79	261.12	0.00	408.49	292.69	0.00	532.19	348.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	433.03	263.78	0.00	409.66	302.23	0.00	533.71	328.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	443.50	274.45	0.00	419.57	332.40	0.00	546.61	321.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	462.71	290.29	0.00	437.74	388.46	0.00	570.28	327.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	490.57	308.08	0.00	464.10	358.30	0.00	604.63	518.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	527.26	323.81	0.00	498.81	376.77	0.00	649.85	545.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	573.10	332.67	0.00	542.18	387.15	0.00	706.35	560.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POLLUTANT NAME: EXHAUST PARTICULATES, PMEX10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.56	0.04
10	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.41	0.04
15	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.31	0.04
16	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.29	0.04
20	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.24	0.04
25	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.19	0.04
30	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.16	0.04
35	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.14	0.04
40	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04
45	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04
50	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
55	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
60	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
65	0.10	0.00	0.31	0.05	0.00	0.38	0.29	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04

POLLUTANT NAME: TIRE WEAR PARTICULATES, PMTW10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
ALL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.03	0.00

POLLUTANT NAME: BRAKE WEAR PARTICULATES PMBW10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
ALL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 2: VARIABLE START EMISSION RATES IN GRAMS PER TRIP

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
POLLUTANT NAME: REACTIVE ORGANIC GASES UNITS: GRAMS PER TRIP																	
1	5.07	0.06	0.18	5.38	0.07	0.31	5.72	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
5	5.00	0.30	0.18	5.31	0.35	0.31	5.64	0.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
10	4.96	0.58	0.18	5.27	0.68	0.31	5.59	0.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
20	5.00	1.10	0.18	5.32	1.30	0.31	5.65	1.51	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
40	5.63	1.96	0.18	5.99	2.31	0.31	6.36	2.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
60	6.46	2.58	0.59	6.86	3.04	0.95	7.29	3.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
90	6.77	3.06	0.59	7.20	3.59	0.95	7.64	4.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
120	7.08	3.16	0.59	7.53	3.71	0.95	8.00	4.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
180	7.71	3.35	0.59	8.20	3.94	0.95	8.70	4.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
300	8.97	3.72	0.59	9.53	4.37	0.95	10.12	5.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
480	10.85	4.22	0.59	11.53	4.96	0.95	12.25	5.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
720	13.36	4.81	0.59	14.20	5.65	0.95	15.08	6.58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
POLLUTANT NAME: CARBON MONOXIDE UNITS: GRAMS PER TRIP																	
1	39.94	0.71	3.49	43.14	0.82	3.88	45.26	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
5	36.37	3.51	3.49	39.29	4.04	3.88	41.22	4.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
10	32.21	6.87	3.49	34.79	7.93	3.88	36.50	9.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
20	24.86	13.17	3.49	26.86	15.19	3.88	28.18	17.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
40	14.10	24.07	3.49	15.23	27.76	3.88	15.98	32.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
60	8.58	32.68	7.08	9.26	37.70	5.75	9.72	43.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
90	10.11	41.34	7.08	10.92	47.68	5.75	11.46	55.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
120	23.12	44.82	7.08	24.98	51.70	5.75	26.20	60.04	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
180	36.54	46.14	7.08	39.47	53.22	5.75	41.41	61.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
300	59.10	48.90	7.08	63.84	56.41	5.75	66.97	65.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
480	82.28	53.36	7.08	88.88	61.55	5.75	93.24	71.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
720	93.29	59.89	7.08	100.76	69.08	5.75	105.72	80.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
POLLUTANT NAME: OXIDES OF NITROGEN UNITS: GRAMS PER TRIP																	
1	0.67	0.33	0.12	0.75	0.50	0.72	0.82	0.57	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
5	0.72	0.58	0.12	0.81	0.87	0.72	0.88	1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
10	0.78	0.87	0.12	0.88	1.30	0.72	0.96	1.53	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
20	0.89	1.37	0.12	1.01	2.05	0.72	1.10	2.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
40	1.08	2.10	0.12	1.22	3.14	0.72	1.32	3.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
60	1.20	2.46	0.34	1.36	3.67	1.06	1.47	4.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
90	1.27	2.47	0.34	1.43	3.69	1.06	1.56	4.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
120	1.20	2.47	0.34	1.36	3.69	1.06	1.48	4.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64

180	1.17	2.46	0.34	1.33	3.67	1.06	1.44	4.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
300	1.09	2.43	0.34	1.23	3.63	1.06	1.34	4.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
480	0.89	2.34	0.34	1.01	3.50	1.06	1.09	4.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
720	0.50	2.16	0.34	0.56	3.23	1.06	0.61	3.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61

POLLUTANT NAME: CARBON DIOXIDE UNITS: GRAMS PER TRIP

1	111.66	1.11	0.00	103.17	1.31	0.00	148.52	1.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
5	119.98	4.96	0.00	110.86	5.80	0.00	159.59	8.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
10	130.20	9.76	0.00	120.30	11.38	0.00	173.18	17.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
20	150.03	19.26	0.00	138.62	22.46	0.00	199.56	35.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
40	187.27	37.96	0.00	173.03	44.24	0.00	249.10	70.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
60	221.29	56.22	0.00	204.47	65.51	0.00	294.35	103.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
90	266.28	82.79	0.00	246.03	96.47	0.00	354.19	153.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
120	299.45	95.93	0.00	276.68	111.83	0.00	398.31	176.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
180	299.69	113.27	0.00	276.90	132.04	0.00	398.62	208.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
300	300.16	144.92	0.00	277.34	168.92	0.00	399.25	267.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
480	300.86	184.79	0.00	277.99	215.39	0.00	400.19	340.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
720	301.80	223.76	0.00	278.86	260.85	0.00	401.44	411.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 4: HOT SOAK EMISSION RATES IN GRAMS PER TRIP

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
TOG	6.58	0.69	N/A	5.67	0.73	N/A	5.41	0.39	1.23	0.61	N/A	2.22	0.61	N/A	N/A	N/A	0.53

TABLE 5: DIURNAL EMISSION RATES IN GRAMS PER HOUR

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
TOG	5.42	0.73	N/A	4.65	0.75	N/A	4.44	0.46	2.51	0.69	N/A	5.39	0.67	N/A	N/A	N/A	0.42

TABLE 6: RESTING LOSSES IN GRAMS PER HOUR

POLLUTANT NAME: REACTIVE ORGANIC GASES

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
30	0.07	0.09	N/A	0.19	0.08	N/A	0.19	0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	0.07	0.11	N/A	0.24	0.10	N/A	0.24	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	0.08	0.13	N/A	0.29	0.12	N/A	0.28	0.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	0.08	0.15	N/A	0.33	0.14	N/A	0.33	0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

70	0.09	0.17	N/A	0.38	0.16	N/A	0.37	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75	0.09	0.18	N/A	0.40	0.17	N/A	0.39	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
85	0.09	0.20	N/A	0.45	0.19	N/A	0.44	0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90	0.09	0.21	N/A	0.47	0.20	N/A	0.46	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
95	0.10	0.22	N/A	0.49	0.21	N/A	0.49	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100	0.10	0.23	N/A	0.51	0.22	N/A	0.51	0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105	0.10	0.24	N/A	0.54	0.23	N/A	0.53	0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
110	0.10	0.25	N/A	0.56	0.24	N/A	0.55	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 7: ESTIMATED TRAVEL FRACTIONS

	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
% VMT	2.49	96.88	0.63	1.45	97.88	0.67	0.54	99.46	17.22	82.78	100.00	38.64	61.36	100.00	100.	100.	100.
% TRIP	3.97	95.15	0.88	3.10	95.79	1.11	1.43	98.57	17.22	82.78	100.00	38.64	61.36	100.00	100.	100.	100.
% VEH	4.79	94.30	0.91	3.44	95.41	1.15	1.59	98.41	31.93	68.07	100.00	63.23	36.77	100.00	100.	100.	100.

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 8: EVAPORATIVE RUNNING LOSSES IN GRAMS PER MILE

LIGHT DUTY AUTOS NON-CATALYST

SPEED MPH	TEMPERATURE IN DEG. F 30	40	50	60	70	75	85	90	95	100	105	110
5	1.653	1.835	2.036	2.260	2.509	2.644	2.935	3.093	3.259	7.557	11.452	11.452
10	1.102	1.223	1.357	1.506	1.672	1.761	1.955	2.060	2.171	5.036	7.631	7.631
15	0.736	0.817	0.906	1.006	1.116	1.176	1.305	1.375	1.449	3.362	5.095	5.095
16	0.679	0.753	0.836	0.928	1.030	1.085	1.204	1.269	1.337	3.102	4.701	4.701
20	0.492	0.546	0.606	0.673	0.747	0.787	0.873	0.920	0.969	2.249	3.408	3.408
25	0.330	0.366	0.406	0.451	0.500	0.527	0.585	0.616	0.649	1.507	2.284	2.284
30	0.221	0.246	0.273	0.303	0.336	0.354	0.393	0.414	0.436	1.012	1.533	1.533
35	0.149	0.165	0.183	0.203	0.226	0.238	0.264	0.278	0.293	0.680	1.030	1.030
40	0.100	0.111	0.123	0.137	0.152	0.160	0.178	0.187	0.197	0.458	0.694	0.694
45	0.068	0.075	0.083	0.092	0.103	0.108	0.120	0.126	0.133	0.309	0.468	0.468
50	0.046	0.051	0.056	0.062	0.069	0.073	0.081	0.085	0.090	0.209	0.316	0.316
55	0.031	0.034	0.038	0.042	0.047	0.049	0.055	0.058	0.061	0.141	0.214	0.214
60	0.021	0.023	0.026	0.029	0.032	0.034	0.037	0.039	0.041	0.096	0.145	0.145
65	0.014	0.016	0.018	0.020	0.022	0.023	0.025	0.027	0.028	0.065	0.099	0.099

LIGHT DUTY AUTOS CATALYST EQUIPPED

SPEED MPH	TEMPERATURE IN DEG. F 30	40	50	60	70	75	85	90	95	100	105	110
5	0.623	0.861	1.196	1.671	2.346	2.783	3.929	4.674	5.565	8.556	11.382	11.382
10	0.248	0.336	0.461	0.635	0.880	1.038	1.451	1.718	2.037	3.175	4.251	4.251
15	0.115	0.153	0.207	0.282	0.386	0.453	0.627	0.739	0.872	1.378	1.856	1.856

16	0.100	0.133	0.180	0.244	0.333	0.390	0.539	0.635	0.749	1.186	1.600	1.600
20	0.060	0.080	0.107	0.144	0.195	0.228	0.313	0.367	0.432	0.690	0.934	0.934
25	0.036	0.047	0.062	0.083	0.112	0.130	0.178	0.208	0.245	0.394	0.535	0.535
30	0.023	0.030	0.040	0.054	0.072	0.084	0.115	0.134	0.157	0.254	0.345	0.345
35	0.017	0.022	0.029	0.039	0.052	0.061	0.084	0.098	0.115	0.185	0.251	0.251
40	0.013	0.017	0.023	0.032	0.043	0.050	0.069	0.081	0.096	0.152	0.206	0.206
45	0.012	0.016	0.021	0.029	0.040	0.047	0.066	0.078	0.092	0.144	0.194	0.194
50	0.012	0.016	0.023	0.031	0.044	0.052	0.072	0.086	0.102	0.158	0.211	0.211
55	0.014	0.020	0.028	0.039	0.056	0.066	0.094	0.112	0.134	0.204	0.271	0.271
60	0.021	0.029	0.042	0.059	0.085	0.101	0.145	0.173	0.207	0.313	0.412	0.412
65	0.036	0.052	0.074	0.107	0.153	0.184	0.265	0.319	0.383	0.572	0.751	0.751

LIGHT DUTY TRUCKS NON-CATALYST

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	1.439	1.598	1.773	1.968	2.184	2.301	2.554	2.691	2.835	6.550	9.939	9.939
10	0.961	1.067	1.184	1.314	1.458	1.536	1.705	1.796	1.893	4.373	6.635	6.635
15	0.643	0.713	0.792	0.879	0.975	1.027	1.140	1.201	1.266	2.924	4.437	4.437
16	0.593	0.658	0.731	0.811	0.900	0.948	1.052	1.109	1.168	2.699	4.095	4.095
20	0.430	0.478	0.530	0.588	0.653	0.688	0.764	0.805	0.848	1.959	2.972	2.972
25	0.289	0.321	0.356	0.395	0.438	0.462	0.512	0.540	0.569	1.314	1.994	1.994
30	0.194	0.215	0.239	0.265	0.295	0.310	0.344	0.363	0.382	0.883	1.340	1.340
35	0.131	0.145	0.161	0.179	0.198	0.209	0.232	0.244	0.257	0.595	0.902	0.902
40	0.088	0.098	0.109	0.121	0.134	0.141	0.156	0.165	0.174	0.401	0.609	0.609
45	0.060	0.066	0.073	0.081	0.090	0.095	0.106	0.111	0.117	0.271	0.411	0.411
50	0.040	0.045	0.050	0.055	0.061	0.064	0.072	0.075	0.079	0.183	0.278	0.278
55	0.027	0.030	0.034	0.037	0.041	0.044	0.049	0.051	0.054	0.124	0.189	0.189
60	0.019	0.021	0.023	0.025	0.028	0.030	0.033	0.035	0.037	0.084	0.128	0.128
65	0.013	0.014	0.016	0.017	0.019	0.020	0.022	0.024	0.025	0.058	0.087	0.087

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YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 8: EVAPORATIVE RUNNING LOSSES IN GRAMS PER MILE

LIGHT DUTY TRUCKS CATALYST EQUIPPED

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	0.448	0.602	0.816	1.117	1.540	1.814	2.528	2.991	3.543	5.498	7.391	7.391
10	0.196	0.256	0.338	0.451	0.608	0.709	0.970	1.139	1.338	2.127	2.893	2.893
15	0.100	0.127	0.164	0.214	0.283	0.326	0.439	0.510	0.595	0.969	1.334	1.334
16	0.088	0.112	0.144	0.187	0.247	0.284	0.381	0.442	0.515	0.843	1.162	1.162
20	0.057	0.071	0.090	0.116	0.151	0.172	0.228	0.264	0.306	0.508	0.706	0.706
25	0.035	0.044	0.055	0.070	0.090	0.102	0.134	0.154	0.178	0.299	0.418	0.418
30	0.023	0.029	0.036	0.046	0.059	0.067	0.087	0.100	0.115	0.195	0.273	0.273
35	0.016	0.020	0.026	0.033	0.042	0.048	0.063	0.072	0.083	0.140	0.196	0.196
40	0.012	0.015	0.020	0.025	0.033	0.038	0.050	0.058	0.068	0.112	0.155	0.155
45	0.010	0.013	0.017	0.022	0.029	0.034	0.046	0.053	0.062	0.101	0.138	0.138
50	0.009	0.012	0.016	0.022	0.030	0.035	0.048	0.057	0.067	0.105	0.143	0.143
55	0.010	0.014	0.019	0.026	0.036	0.043	0.060	0.071	0.084	0.130	0.175	0.175
60	0.014	0.019	0.027	0.038	0.053	0.063	0.090	0.107	0.128	0.194	0.258	0.258
65	0.023	0.032	0.046	0.066	0.094	0.113	0.162	0.195	0.234	0.350	0.461	0.461

MEDIUM DUTY TRUCKS NON-CATALYST

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	1.395	1.546	1.714	1.900	2.106	2.217	2.458	2.588	2.725	6.352	9.626	9.626
10	0.933	1.034	1.146	1.270	1.408	1.483	1.644	1.730	1.822	4.248	6.437	6.437
15	0.624	0.692	0.767	0.850	0.943	0.992	1.100	1.158	1.220	2.843	4.309	4.309
16	0.576	0.639	0.708	0.785	0.870	0.916	1.015	1.069	1.126	2.624	3.977	3.977
20	0.418	0.464	0.514	0.570	0.632	0.665	0.737	0.776	0.817	1.905	2.887	2.887
25	0.281	0.311	0.345	0.382	0.424	0.446	0.494	0.521	0.548	1.278	1.936	1.936
30	0.188	0.209	0.231	0.257	0.284	0.299	0.332	0.349	0.368	0.858	1.300	1.300
35	0.127	0.140	0.156	0.172	0.191	0.201	0.223	0.235	0.247	0.577	0.874	0.874
40	0.085	0.094	0.105	0.116	0.129	0.135	0.150	0.158	0.166	0.388	0.588	0.588
45	0.057	0.064	0.070	0.078	0.087	0.091	0.101	0.106	0.112	0.261	0.396	0.396
50	0.039	0.043	0.048	0.053	0.058	0.061	0.068	0.072	0.076	0.176	0.267	0.267
55	0.026	0.029	0.032	0.036	0.039	0.041	0.046	0.048	0.051	0.119	0.180	0.180
60	0.018	0.020	0.022	0.024	0.027	0.028	0.031	0.033	0.034	0.080	0.122	0.122
65	0.012	0.013	0.015	0.016	0.018	0.019	0.021	0.022	0.023	0.054	0.082	0.082

MEDIUM DUTY TRUCKS CATALYST EQUIPPED

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	0.343	0.489	0.702	1.014	1.473	1.777	2.593	3.136	3.794	5.562	7.264	7.264
10	0.130	0.180	0.253	0.359	0.515	0.617	0.892	1.075	1.296	1.923	2.527	2.527
15	0.059	0.080	0.110	0.153	0.215	0.256	0.366	0.438	0.526	0.794	1.051	1.051
16	0.052	0.069	0.095	0.131	0.184	0.219	0.312	0.374	0.448	0.678	0.900	0.900
20	0.032	0.042	0.056	0.076	0.106	0.125	0.177	0.211	0.252	0.386	0.515	0.515
25	0.019	0.025	0.033	0.044	0.060	0.071	0.100	0.118	0.141	0.218	0.293	0.293
30	0.012	0.016	0.021	0.029	0.039	0.046	0.065	0.077	0.091	0.142	0.190	0.190
35	0.009	0.012	0.015	0.021	0.029	0.034	0.048	0.057	0.068	0.105	0.141	0.141
40	0.007	0.009	0.013	0.018	0.025	0.029	0.041	0.050	0.059	0.090	0.120	0.120
45	0.006	0.009	0.012	0.017	0.024	0.029	0.042	0.050	0.061	0.091	0.119	0.119
50	0.007	0.010	0.014	0.020	0.029	0.035	0.050	0.061	0.073	0.108	0.142	0.142
55	0.009	0.013	0.019	0.028	0.041	0.049	0.072	0.087	0.106	0.155	0.201	0.201
60	0.015	0.022	0.032	0.047	0.069	0.084	0.124	0.150	0.182	0.264	0.343	0.343
65	0.030	0.044	0.065	0.095	0.140	0.171	0.251	0.305	0.371	0.536	0.696	0.696

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1A: TEMPERATURE CORRECTION FACTORS FOR RUNNING EXHAUST EMISSION RATES

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
POLLUTANT NAME: REACTIVE ORGANIC GASES																	
30	1.65	1.16	N/A	1.65	1.19	N/A	1.65	1.00	1.25	1.40	N/A	1.24	1.40	N/A	N/A	N/A	1.02
40	1.48	1.11	N/A	1.48	1.14	N/A	1.48	1.00	1.19	1.30	N/A	1.18	1.30	N/A	N/A	N/A	1.01
50	1.32	1.05	N/A	1.32	1.07	N/A	1.32	0.99	1.13	1.20	N/A	1.13	1.20	N/A	N/A	N/A	1.01
60	1.18	1.00	N/A	1.18	1.01	N/A	1.18	0.98	1.08	1.12	N/A	1.07	1.12	N/A	N/A	N/A	1.01
70	1.06	0.99	N/A	1.06	0.99	N/A	1.06	0.99	1.02	1.04	N/A	1.02	1.04	N/A	N/A	N/A	1.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.05	1.08	N/A	1.05	1.09	N/A	1.05	1.05	1.15	1.23	N/A	1.11	1.23	N/A	N/A	N/A	1.03
90	1.08	1.15	N/A	1.08	1.17	N/A	1.08	1.09	1.23	1.36	N/A	1.17	1.36	N/A	N/A	N/A	1.04
95	1.10	1.25	N/A	1.10	1.28	N/A	1.10	1.14	1.32	1.51	N/A	1.23	1.51	N/A	N/A	N/A	1.05
100	1.13	1.38	N/A	1.13	1.42	N/A	1.13	1.21	1.42	1.67	N/A	1.30	1.67	N/A	N/A	N/A	1.07
105	1.16	1.54	N/A	1.16	1.60	N/A	1.16	1.29	1.52	1.85	N/A	1.37	1.85	N/A	N/A	N/A	1.08
110	1.18	1.74	N/A	1.18	1.82	N/A	1.19	1.38	1.64	2.05	N/A	1.45	2.05	N/A	N/A	N/A	1.10

POLLUTANT NAME: CARBON MONOXIDE

30	1.93	1.21	N/A	1.93	1.23	N/A	1.93	1.12	1.20	1.41	N/A	1.19	1.41	N/A	N/A	N/A	1.02
40	1.67	1.12	N/A	1.67	1.13	N/A	1.67	1.06	1.15	1.31	N/A	1.14	1.31	N/A	N/A	N/A	1.01
50	1.44	1.04	N/A	1.44	1.05	N/A	1.44	1.01	1.10	1.21	N/A	1.10	1.21	N/A	N/A	N/A	1.01
60	1.24	1.00	N/A	1.24	1.00	N/A	1.24	0.99	1.06	1.12	N/A	1.06	1.12	N/A	N/A	N/A	1.01
70	1.08	0.99	N/A	1.08	0.99	N/A	1.08	0.99	1.02	1.04	N/A	1.02	1.04	N/A	N/A	N/A	1.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.16	1.06	N/A	1.16	1.06	N/A	1.16	1.05	1.27	1.31	N/A	1.27	1.31	N/A	N/A	N/A	1.28
90	1.25	1.11	N/A	1.25	1.11	N/A	1.25	1.08	1.43	1.50	N/A	1.43	1.50	N/A	N/A	N/A	1.45
95	1.35	1.17	N/A	1.35	1.18	N/A	1.35	1.13	1.62	1.72	N/A	1.61	1.72	N/A	N/A	N/A	1.64
100	1.45	1.25	N/A	1.45	1.26	N/A	1.45	1.19	1.82	1.96	N/A	1.81	1.96	N/A	N/A	N/A	1.86
105	1.57	1.34	N/A	1.57	1.36	N/A	1.57	1.26	2.06	2.25	N/A	2.04	2.25	N/A	N/A	N/A	2.10
110	1.69	1.45	N/A	1.69	1.47	N/A	1.69	1.34	2.32	2.57	N/A	2.30	2.57	N/A	N/A	N/A	2.38

POLLUTANT NAME: OXIDES OF NITROGEN

30	1.30	1.43	N/A	1.30	1.43	N/A	1.30	1.40	1.16	1.30	N/A	1.13	1.30	N/A	N/A	N/A	1.31
40	1.23	1.35	N/A	1.23	1.35	N/A	1.23	1.33	1.12	1.22	N/A	1.10	1.22	N/A	N/A	N/A	1.23
50	1.16	1.24	N/A	1.16	1.24	N/A	1.16	1.23	1.09	1.15	N/A	1.07	1.15	N/A	N/A	N/A	1.16
60	1.09	1.13	N/A	1.09	1.13	N/A	1.09	1.12	1.05	1.09	N/A	1.04	1.09	N/A	N/A	N/A	1.09
70	1.03	1.03	N/A	1.03	1.03	N/A	1.03	1.03	1.02	1.03	N/A	1.01	1.03	N/A	N/A	N/A	1.03
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.00	0.98	N/A	1.00	0.98	N/A	1.00	0.99	1.17	1.24	N/A	1.18	1.24	N/A	N/A	N/A	0.91
90	1.00	1.01	N/A	1.00	1.01	N/A	1.00	1.01	1.27	1.38	N/A	1.28	1.38	N/A	N/A	N/A	0.87
95	1.00	1.05	N/A	1.00	1.05	N/A	1.00	1.06	1.38	1.54	N/A	1.39	1.54	N/A	N/A	N/A	0.83
100	1.00	1.13	N/A	1.00	1.13	N/A	1.00	1.13	1.49	1.72	N/A	1.51	1.72	N/A	N/A	N/A	0.79
105	1.00	1.23	N/A	1.00	1.23	N/A	1.00	1.24	1.63	1.91	N/A	1.64	1.91	N/A	N/A	N/A	0.76
110	1.00	1.37	N/A	1.00	1.37	N/A	1.00	1.38	1.77	2.13	N/A	1.79	2.13	N/A	N/A	N/A	0.72

POLLUTANT NAME: CARBON DIOXIDE

30	1.93	1.12	N/A	1.93	1.13	N/A	1.93	1.08	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
40	1.67	1.06	N/A	1.67	1.07	N/A	1.67	1.04	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
50	1.44	1.02	N/A	1.44	1.02	N/A	1.44	1.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
60	1.24	0.99	N/A	1.24	0.99	N/A	1.24	0.99	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
70	1.08	0.99	N/A	1.08	0.99	N/A	1.08	0.99	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
85	1.16	1.05	N/A	1.16	1.05	N/A	1.16	1.04	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
90	1.25	1.09	N/A	1.25	1.09	N/A	1.25	1.08	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
95	1.35	1.13	N/A	1.35	1.14	N/A	1.35	1.12	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
100	1.45	1.19	N/A	1.45	1.20	N/A	1.45	1.17	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
105	1.57	1.26	N/A	1.57	1.27	N/A	1.57	1.23	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
110	1.69	1.35	N/A	1.69	1.35	N/A	1.69	1.30	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 2A: TEMPERATURE CORRECTION FACTORS FOR VARIABLE STARTS

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL

POLLUTANT NAME: REACTIVE ORGANIC GASES

30	3.82	3.64	N/A	3.82	3.86	N/A	3.83	3.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25
40	2.84	2.92	N/A	2.84	3.08	N/A	2.84	2.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.41
50	2.11	2.23	N/A	2.11	2.34	N/A	2.11	2.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.57
60	1.56	1.63	N/A	1.56	1.68	N/A	1.56	1.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73
70	1.16	1.16	N/A	1.16	1.18	N/A	1.16	1.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.91
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00

85	1.05	0.84	N/A	1.05	0.83	N/A	1.05	0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.39
90	1.07	0.87	N/A	1.07	0.85	N/A	1.07	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.61
95	1.09	0.96	N/A	1.09	0.95	N/A	1.09	0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.84
100	1.12	1.13	N/A	1.12	1.14	N/A	1.12	1.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.09
105	1.14	1.40	N/A	1.14	1.42	N/A	1.14	1.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.36
110	1.17	1.75	N/A	1.17	1.81	N/A	1.17	1.70	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.65

POLLUTANT NAME: CARBON MONOXIDE

30	5.13	3.67	N/A	1.00	3.77	N/A	1.00	3.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02
40	4.21	3.12	N/A	1.00	3.20	N/A	1.00	2.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.15
50	3.29	2.47	N/A	1.00	2.53	N/A	1.00	2.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.37
60	2.38	1.81	N/A	1.00	1.84	N/A	1.00	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
70	1.46	1.23	N/A	1.00	1.24	N/A	1.00	1.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.87
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00
85	1.06	0.73	N/A	1.06	0.71	N/A	1.06	0.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.34
90	1.10	0.71	N/A	1.10	0.69	N/A	1.10	0.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.56
95	1.13	0.79	N/A	1.13	0.76	N/A	1.13	0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.81
100	1.17	0.98	N/A	1.17	0.94	N/A	1.17	1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.40
105	1.21	1.28	N/A	1.21	1.24	N/A	1.21	1.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.94
110	1.24	1.71	N/A	1.24	1.67	N/A	1.24	1.82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.62

POLLUTANT NAME: OXIDES OF NITROGEN

30	1.41	1.32	N/A	1.41	1.32	N/A	1.41	1.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.77
40	1.31	1.29	N/A	1.31	1.29	N/A	1.31	1.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.35
50	1.21	1.22	N/A	1.21	1.22	N/A	1.21	1.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21
60	1.12	1.12	N/A	1.12	1.12	N/A	1.12	1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.12
70	1.04	1.03	N/A	1.04	1.03	N/A	1.04	1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.04
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00
85	1.00	0.96	N/A	1.00	0.96	N/A	1.00	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.87
90	1.00	0.97	N/A	1.00	0.97	N/A	1.00	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.81
95	1.00	0.99	N/A	1.00	0.99	N/A	1.00	0.98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75
100	1.00	1.04	N/A	1.00	1.04	N/A	1.00	1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.70
105	1.00	1.11	N/A	1.00	1.11	N/A	1.00	1.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.65
110	1.00	1.20	N/A	1.00	1.20	N/A	1.00	1.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61

POLLUTANT NAME: CARBON DIOXIDE

30	1.00	3.40	N/A	1.00	3.54	N/A	1.00	3.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
40	1.00	2.92	N/A	1.00	3.03	N/A	1.00	2.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
50	1.00	2.33	N/A	1.00	2.40	N/A	1.00	2.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
60	1.00	1.72	N/A	1.00	1.77	N/A	1.00	1.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
70	1.00	1.20	N/A	1.00	1.21	N/A	1.00	1.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
85	1.06	0.77	N/A	1.06	0.76	N/A	1.06	0.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
90	1.10	0.77	N/A	1.10	0.75	N/A	1.10	0.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
95	1.13	0.86	N/A	1.13	0.84	N/A	1.13	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
100	1.17	1.06	N/A	1.17	1.04	N/A	1.17	1.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
105	1.21	1.36	N/A	1.21	1.35	N/A	1.21	1.42	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
110	1.24	1.79	N/A	1.24	1.79	N/A	1.24	1.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1: SUMMERTIME RUNNING I/M EXHAUST EMISSION FACTORS AT 75 DEG F

POLLUTANT NAME: REACTIVE ORGANIC GASES UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS			LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY

MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	17.04	1.27	0.92	16.71	1.72	0.88	18.04	2.14	10.54	1.60	2.05	19.26	3.09	3.59	4.71	5.66	8.68
10	13.62	0.60	0.72	13.37	0.81	0.69	14.42	1.05	6.91	1.05	1.61	12.62	2.02	2.82	3.70	4.10	4.57
15	10.69	0.42	0.58	10.49	0.56	0.56	11.32	0.73	4.72	0.72	1.29	8.62	1.38	2.26	2.97	3.08	3.22
16	10.17	0.40	0.55	9.98	0.54	0.53	10.76	0.70	4.39	0.67	1.24	8.03	1.29	2.17	2.85	2.92	3.07
20	8.25	0.36	0.47	8.10	0.48	0.46	8.72	0.62	3.36	0.51	1.06	6.14	0.98	1.86	2.43	2.40	2.61
25	6.29	0.33	0.40	6.18	0.45	0.38	6.65	0.57	2.49	0.38	0.89	4.55	0.73	1.56	2.04	1.93	2.24
30	4.81	0.31	0.34	4.73	0.42	0.33	5.08	0.53	1.93	0.29	0.76	3.52	0.56	1.33	1.75	1.61	1.95
35	3.82	0.28	0.30	3.76	0.37	0.29	4.03	0.48	1.55	0.24	0.67	2.84	0.46	1.17	1.53	1.39	1.72
40	3.32	0.24	0.27	3.26	0.31	0.26	3.50	0.42	1.31	0.20	0.60	2.39	0.38	1.05	1.37	1.25	1.56
45	3.30	0.20	0.24	3.24	0.26	0.24	3.48	0.36	1.14	0.17	0.55	2.09	0.34	0.96	1.26	1.16	1.47
50	3.76	0.18	0.23	3.70	0.24	0.22	3.97	0.33	1.05	0.16	0.51	1.91	0.31	0.90	1.18	1.11	1.43
55	4.71	0.20	0.22	4.63	0.26	0.21	4.97	0.35	1.00	0.15	0.49	1.82	0.29	0.86	1.13	1.10	1.37
60	6.15	0.30	0.21	6.04	0.41	0.21	6.49	0.52	0.99	0.15	0.48	1.80	0.29	0.84	1.10	1.14	1.21
65	8.06	0.84	0.21	7.92	1.22	0.21	8.53	1.28	1.02	0.15	0.48	1.87	0.30	0.84	1.10	1.21	0.83

POLLUTANT NAME: CARBON MONOXIDE UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	250.21	22.88	4.77	244.28	26.14	4.68	280.83	17.29	156.64	18.91	19.13	292.98	33.34	28.51	35.05	8.20	52.43
10	152.37	12.88	3.29	148.76	14.26	3.23	171.01	9.62	104.21	12.58	13.19	194.92	22.18	19.66	24.17	5.16	25.21
15	98.23	8.85	2.37	95.90	9.81	2.33	110.25	6.66	73.26	8.84	9.52	137.02	15.59	14.19	17.44	3.45	16.55
16	90.59	8.35	2.24	88.44	9.28	2.20	101.67	6.30	68.72	8.30	8.97	128.53	14.63	13.36	16.43	3.21	15.56
20	67.04	6.88	1.79	65.45	7.75	1.76	75.24	5.27	54.40	6.57	7.19	101.76	11.58	10.71	13.17	2.45	12.70
25	48.44	5.75	1.42	47.29	6.59	1.39	54.37	4.48	42.69	5.15	5.68	79.85	9.09	8.47	10.41	1.85	10.39
30	37.05	4.99	1.17	36.17	5.76	1.15	41.58	3.92	35.39	4.27	4.70	66.19	7.53	7.00	8.61	1.48	8.73
35	30.00	4.42	1.01	29.29	5.08	1.00	33.67	3.47	31.00	3.74	4.07	57.98	6.60	6.06	7.45	1.25	7.47
40	25.72	4.01	0.92	25.11	4.55	0.90	28.87	3.13	28.69	3.46	3.69	53.66	6.11	5.49	6.75	1.13	6.59
45	23.34	3.82	0.87	22.79	4.25	0.86	26.20	2.96	28.05	3.39	3.49	52.46	5.97	5.21	6.40	1.08	6.08
50	22.43	3.98	0.86	21.90	4.38	0.85	25.17	3.07	28.98	3.50	3.47	54.20	6.17	5.17	6.35	1.10	5.84
55	22.81	4.82	0.90	22.27	5.37	0.88	25.60	3.77	31.63	3.82	3.60	59.15	6.73	5.37	6.60	1.19	5.65
60	24.56	7.38	0.98	23.98	8.68	0.96	27.57	6.03	36.47	4.40	3.91	68.21	7.76	5.83	7.17	1.37	5.07
65	28.00	16.07	1.11	27.34	21.40	1.09	31.43	14.34	44.43	5.36	4.45	83.10	9.46	6.63	8.16	1.66	3.65

POLLUTANT NAME: OXIDES OF NITROGEN UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	4.86	1.48	2.23	5.31	2.39	2.09	5.79	2.87	4.65	2.29	8.00	7.39	4.27	13.17	19.27	34.36	0.71
10	2.55	1.10	1.85	2.78	1.78	1.74	3.04	2.15	4.89	2.41	6.64	7.77	4.49	10.93	15.99	26.28	0.64
15	1.92	0.88	1.59	2.09	1.42	1.49	2.28	1.71	5.12	2.52	5.70	8.14	4.70	9.39	13.75	21.13	0.66
16	1.86	0.84	1.55	2.03	1.37	1.46	2.21	1.65	5.17	2.55	5.56	8.22	4.75	9.15	13.39	20.35	0.66
20	1.76	0.73	1.42	1.91	1.19	1.33	2.09	1.42	5.36	2.64	5.08	8.52	4.92	8.37	12.24	17.86	0.71
25	1.82	0.64	1.31	1.99	1.04	1.23	2.17	1.25	5.60	2.75	4.69	8.89	5.14	7.72	11.30	15.88	0.79
30	2.04	0.61	1.25	2.22	0.98	1.17	2.43	1.18	5.83	2.87	4.48	9.27	5.35	7.38	10.80	14.83	0.87
35	2.37	0.62	1.24	2.58	1.01	1.16	2.82	1.21	6.07	2.99	4.44	9.64	5.57	7.31	10.71	14.57	0.94
40	2.80	0.68	1.27	3.05	1.12	1.19	3.33	1.34	6.30	3.10	4.56	10.02	5.79	7.51	10.99	15.04	0.99
45	3.31	0.80	1.35	3.61	1.30	1.27	3.94	1.56	6.54	3.22	4.85	10.39	6.00	7.99	11.69	16.33	1.02
50	3.91	0.96	1.49	4.26	1.57	1.40	4.65	1.88	6.77	3.33	5.35	10.77	6.22	8.80	12.88	18.63	1.08
55	4.58	1.17	1.70	5.00	1.91	1.60	5.45	2.30	7.01	3.45	6.11	11.14	6.44	10.05	14.71	22.35	1.20
60	5.33	1.43	2.01	5.82	2.34	1.89	6.35	2.81	7.25	3.57	7.22	11.51	6.65	11.90	17.41	28.19	1.48
65	6.16	1.73	2.47	6.72	2.84	2.32	7.33	3.42	7.48	3.68	8.86	11.89	6.87	14.58	21.34	37.37	2.17

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1 (CONTINUED): SUMMERTIME RUNNING I/M EXHAUST EMISSION FACTORS AT 75 DEG F

POLLUTANT NAME: CARBON DIOXIDE UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	1236.45	950.07	0.00	1169.73	1032.81	0.00	1523.92	1559.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	745.66	610.88	0.00	705.43	695.93	0.00	919.03	1035.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	583.92	437.57	0.00	552.41	506.44	0.00	719.68	738.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	564.08	414.19	0.00	533.64	479.56	0.00	695.23	695.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	506.11	344.64	0.00	478.80	397.10	0.00	623.78	561.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	463.73	294.59	0.00	438.71	334.71	0.00	571.55	453.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	441.08	269.73	0.00	417.28	302.58	0.00	543.63	387.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	431.79	261.12	0.00	408.49	292.69	0.00	532.19	348.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	433.03	263.78	0.00	409.66	302.23	0.00	533.71	328.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	443.50	274.45	0.00	419.57	332.40	0.00	546.61	321.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	462.71	290.29	0.00	437.74	388.46	0.00	570.28	327.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	490.57	308.08	0.00	464.10	358.30	0.00	604.63	518.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	527.26	323.81	0.00	498.81	376.77	0.00	649.85	545.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	573.10	332.67	0.00	542.18	387.15	0.00	706.35	560.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

POLLUTANT NAME: EXHAUST PARTICULATES, PMEX10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
5	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.56	0.04
10	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.41	0.04
15	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.31	0.04
16	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.29	0.04
20	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.24	0.04
25	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.19	0.04
30	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.16	0.04
35	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.14	0.04
40	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04
45	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04
50	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
55	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
60	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.11	0.04
65	0.03	0.00	0.31	0.03	0.01	0.38	0.05	0.00	0.30	0.05	0.44	0.28	0.05	0.65	0.95	0.12	0.04

POLLUTANT NAME: TIRE WEAR PARTICULATES, PMTW10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
ALL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.03	0.00

POLLUTANT NAME: BRAKE WEAR PARTICULATES PMBW10 UNITS: GRAMS PER MILE

SPEED	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MPH	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
ALL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 2: VARIABLE START EMISSION RATES IN GRAMS PER TRIP

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
POLLUTANT NAME: REACTIVE ORGANIC GASES							UNITS: GRAMS PER TRIP										
1	4.49	0.05	0.18	4.82	0.06	0.31	4.92	0.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
5	4.44	0.26	0.18	4.76	0.31	0.31	4.86	0.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
10	4.40	0.51	0.18	4.72	0.61	0.31	4.82	0.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
20	4.44	0.96	0.18	4.76	1.16	0.31	4.86	1.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
40	5.00	1.71	0.18	5.36	2.06	0.31	5.47	2.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
60	5.73	2.25	0.59	6.15	2.71	0.95	6.28	3.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
90	6.01	2.66	0.59	6.45	3.21	0.95	6.58	3.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
120	6.29	2.75	0.59	6.74	3.31	0.95	6.89	3.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
180	6.84	2.92	0.59	7.34	3.51	0.95	7.50	3.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.16
300	7.96	3.24	0.59	8.54	3.90	0.95	8.72	4.39	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
480	9.63	3.68	0.59	10.33	4.43	0.95	10.55	4.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
720	11.85	4.19	0.59	12.72	5.05	0.95	12.99	5.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.58
POLLUTANT NAME: CARBON MONOXIDE							UNITS: GRAMS PER TRIP										
1	36.47	0.58	3.49	38.75	0.69	3.88	41.05	0.67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
5	33.21	2.84	3.49	35.29	3.38	3.88	37.38	3.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
10	29.41	5.57	3.49	31.25	6.61	3.88	33.10	6.49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
20	22.70	10.68	3.49	24.12	12.68	3.88	25.55	12.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
40	12.88	19.51	3.49	13.68	23.17	3.88	14.49	22.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
60	7.83	26.50	7.08	8.32	31.46	5.75	8.82	30.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
90	9.23	33.52	7.08	9.81	39.79	5.75	10.39	39.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
120	21.11	36.35	7.08	22.44	43.15	5.75	23.76	42.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
180	33.36	37.42	7.08	35.45	44.42	5.75	37.55	43.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.68
300	53.96	39.66	7.08	57.34	47.08	5.75	60.74	46.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
480	75.13	43.27	7.08	79.83	51.38	5.75	84.56	50.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
720	85.18	48.57	7.08	90.51	57.66	5.75	95.87	56.53	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	53.11
POLLUTANT NAME: OXIDES OF NITROGEN							UNITS: GRAMS PER TRIP										
1	0.64	0.29	0.12	0.72	0.45	0.72	0.78	0.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
5	0.69	0.51	0.12	0.77	0.78	0.72	0.84	0.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
10	0.75	0.76	0.12	0.84	1.16	0.72	0.92	1.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
20	0.86	1.20	0.12	0.96	1.83	0.72	1.05	2.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
40	1.04	1.84	0.12	1.16	2.81	0.72	1.26	3.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
60	1.16	2.15	0.34	1.29	3.28	1.06	1.40	3.94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
90	1.22	2.16	0.34	1.36	3.30	1.06	1.48	3.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
120	1.16	2.16	0.34	1.29	3.30	1.06	1.41	3.95	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
180	1.13	2.15	0.34	1.26	3.29	1.06	1.37	3.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.64
300	1.05	2.13	0.34	1.17	3.24	1.06	1.27	3.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
480	0.86	2.05	0.34	0.96	3.13	1.06	1.04	3.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
720	0.48	1.89	0.34	0.53	2.88	1.06	0.58	3.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
POLLUTANT NAME: CARBON DIOXIDE							UNITS: GRAMS PER TRIP										
1	111.66	1.11	0.00	103.17	1.31	0.00	148.52	1.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
5	119.98	4.96	0.00	110.86	5.80	0.00	159.59	8.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
10	130.20	9.76	0.00	120.30	11.38	0.00	173.18	17.80	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

20	150.03	19.26	0.00	138.62	22.46	0.00	199.56	35.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
40	187.27	37.96	0.00	173.03	44.24	0.00	249.10	70.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
60	221.29	56.22	0.00	204.47	65.51	0.00	294.35	103.85	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
90	266.28	82.79	0.00	246.03	96.47	0.00	354.19	153.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
120	299.45	95.93	0.00	276.68	111.83	0.00	398.31	176.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
180	299.69	113.27	0.00	276.90	132.04	0.00	398.62	208.69	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
300	300.16	144.92	0.00	277.34	168.92	0.00	399.25	267.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
480	300.86	184.79	0.00	277.99	215.39	0.00	400.19	340.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
720	301.80	223.76	0.00	278.86	260.85	0.00	401.44	411.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 4: HOT SOAK EMISSION RATES IN GRAMS PER TRIP

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
TOG	6.31	0.66	N/A	5.40	0.70	N/A	5.20	0.38	1.21	0.60	N/A	2.18	0.60	N/A	N/A	N/A	0.53

TABLE 5: DIURNAL EMISSION RATES IN GRAMS PER HOUR

TIMES	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
MIN	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
TOG	5.20	0.70	N/A	4.42	0.72	N/A	4.27	0.44	2.47	0.68	N/A	5.30	0.66	N/A	N/A	N/A	0.42

TABLE 6: RESTING LOSSES IN GRAMS PER HOUR

POLLUTANT NAME: REACTIVE ORGANIC GASES

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
30	0.07	0.09	N/A	0.19	0.08	N/A	0.19	0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	0.07	0.11	N/A	0.24	0.10	N/A	0.24	0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	0.08	0.13	N/A	0.29	0.12	N/A	0.28	0.09	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	0.08	0.15	N/A	0.33	0.14	N/A	0.33	0.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	0.09	0.17	N/A	0.38	0.16	N/A	0.37	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75	0.09	0.18	N/A	0.40	0.17	N/A	0.39	0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
85	0.09	0.20	N/A	0.45	0.19	N/A	0.44	0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90	0.09	0.21	N/A	0.47	0.20	N/A	0.46	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TABLE 7: ESTIMATED TRAVEL FRACTIONS

	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
% VMT	2.49	96.88	0.63	1.45	97.88	0.67	0.54	99.46	17.22	82.78	100.00	38.64	61.36	100.00	100.	100.	100.
% TRIP	3.97	95.15	0.88	3.10	95.79	1.11	1.43	98.57	17.22	82.78	100.00	38.64	61.36	100.00	100.	100.	100.
% VEH	4.79	94.30	0.91	3.44	95.41	1.15	1.59	98.41	31.93	68.07	100.00	63.23	36.77	100.00	100.	100.	100.

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 8: EVAPORATIVE RUNNING LOSSES IN GRAMS PER MILE

LIGHT DUTY AUTOS NON-CATALYST
TEMPERATURE IN DEG. F

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
5	1.570	1.742	1.934	2.147	2.383	2.511	2.788	2.937	0.000	0.000	0.000	0.000
10	1.046	1.161	1.289	1.430	1.588	1.673	1.857	1.956	0.000	0.000	0.000	0.000
15	0.699	0.775	0.861	0.955	1.060	1.117	1.239	1.306	0.000	0.000	0.000	0.000
16	0.645	0.715	0.794	0.881	0.978	1.030	1.143	1.205	0.000	0.000	0.000	0.000
20	0.468	0.519	0.576	0.639	0.709	0.747	0.829	0.873	0.000	0.000	0.000	0.000
25	0.313	0.348	0.386	0.428	0.475	0.500	0.555	0.585	0.000	0.000	0.000	0.000
30	0.210	0.233	0.259	0.287	0.319	0.336	0.373	0.393	0.000	0.000	0.000	0.000
35	0.141	0.157	0.174	0.193	0.214	0.226	0.251	0.264	0.000	0.000	0.000	0.000
40	0.095	0.106	0.117	0.130	0.144	0.152	0.169	0.178	0.000	0.000	0.000	0.000
45	0.064	0.071	0.079	0.088	0.097	0.103	0.114	0.120	0.000	0.000	0.000	0.000
50	0.043	0.048	0.053	0.059	0.066	0.069	0.077	0.081	0.000	0.000	0.000	0.000
55	0.029	0.033	0.036	0.040	0.045	0.047	0.052	0.055	0.000	0.000	0.000	0.000
60	0.020	0.022	0.025	0.027	0.030	0.032	0.035	0.037	0.000	0.000	0.000	0.000
65	0.014	0.015	0.017	0.019	0.021	0.022	0.024	0.025	0.000	0.000	0.000	0.000

LIGHT DUTY AUTOS CATALYST EQUIPPED
TEMPERATURE IN DEG. F

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
5	0.591	0.817	1.136	1.587	2.228	2.643	3.731	4.439	0.000	0.000	0.000	0.000
10	0.235	0.320	0.437	0.603	0.836	0.986	1.378	1.632	0.000	0.000	0.000	0.000
15	0.109	0.146	0.197	0.268	0.367	0.430	0.595	0.701	0.000	0.000	0.000	0.000
16	0.095	0.127	0.170	0.231	0.316	0.371	0.512	0.603	0.000	0.000	0.000	0.000
20	0.057	0.076	0.101	0.136	0.185	0.216	0.297	0.348	0.000	0.000	0.000	0.000
25	0.034	0.044	0.059	0.079	0.106	0.124	0.169	0.198	0.000	0.000	0.000	0.000
30	0.022	0.029	0.038	0.051	0.069	0.080	0.109	0.128	0.000	0.000	0.000	0.000
35	0.016	0.021	0.027	0.037	0.050	0.058	0.079	0.093	0.000	0.000	0.000	0.000
40	0.012	0.017	0.022	0.030	0.041	0.048	0.066	0.077	0.000	0.000	0.000	0.000
45	0.011	0.015	0.020	0.028	0.038	0.045	0.062	0.074	0.000	0.000	0.000	0.000
50	0.011	0.016	0.021	0.030	0.041	0.049	0.069	0.082	0.000	0.000	0.000	0.000
55	0.014	0.019	0.027	0.037	0.053	0.063	0.089	0.106	0.000	0.000	0.000	0.000

60	0.020	0.028	0.040	0.056	0.080	0.096	0.137	0.164	0.000	0.000	0.000	0.000
65	0.034	0.049	0.071	0.101	0.146	0.175	0.252	0.303	0.000	0.000	0.000	0.000

LIGHT DUTY TRUCKS NON-CATALYST

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	1.296	1.439	1.597	1.772	1.967	2.072	2.300	2.423	0.000	0.000	0.000	0.000
10	0.865	0.960	1.066	1.183	1.313	1.383	1.535	1.618	0.000	0.000	0.000	0.000
15	0.579	0.642	0.713	0.791	0.878	0.925	1.027	1.082	0.000	0.000	0.000	0.000
16	0.534	0.593	0.658	0.730	0.810	0.854	0.948	0.998	0.000	0.000	0.000	0.000
20	0.388	0.430	0.477	0.530	0.588	0.620	0.688	0.725	0.000	0.000	0.000	0.000
25	0.260	0.289	0.320	0.356	0.395	0.416	0.461	0.486	0.000	0.000	0.000	0.000
30	0.175	0.194	0.215	0.239	0.265	0.279	0.310	0.327	0.000	0.000	0.000	0.000
35	0.118	0.131	0.145	0.161	0.179	0.188	0.209	0.220	0.000	0.000	0.000	0.000
40	0.079	0.088	0.098	0.109	0.120	0.127	0.141	0.148	0.000	0.000	0.000	0.000
45	0.054	0.060	0.066	0.073	0.081	0.086	0.095	0.100	0.000	0.000	0.000	0.000
50	0.036	0.040	0.045	0.050	0.055	0.058	0.064	0.068	0.000	0.000	0.000	0.000
55	0.025	0.027	0.030	0.034	0.037	0.039	0.044	0.046	0.000	0.000	0.000	0.000
60	0.017	0.019	0.021	0.023	0.025	0.027	0.030	0.031	0.000	0.000	0.000	0.000
65	0.011	0.013	0.014	0.016	0.017	0.018	0.020	0.021	0.000	0.000	0.000	0.000

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
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EMFAC7G EMISSION FACTORS

TABLE 8: EVAPORATIVE RUNNING LOSSES IN GRAMS PER MILE

LIGHT DUTY TRUCKS CATALYST EQUIPPED

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	0.404	0.542	0.735	1.006	1.387	1.633	2.276	2.693	0.000	0.000	0.000	0.000
10	0.176	0.230	0.304	0.406	0.548	0.639	0.874	1.025	0.000	0.000	0.000	0.000
15	0.090	0.114	0.148	0.193	0.255	0.294	0.395	0.459	0.000	0.000	0.000	0.000
16	0.080	0.101	0.130	0.169	0.222	0.256	0.343	0.398	0.000	0.000	0.000	0.000
20	0.051	0.064	0.081	0.104	0.136	0.155	0.206	0.237	0.000	0.000	0.000	0.000
25	0.032	0.039	0.049	0.063	0.081	0.092	0.121	0.139	0.000	0.000	0.000	0.000
30	0.021	0.026	0.032	0.041	0.053	0.060	0.079	0.090	0.000	0.000	0.000	0.000
35	0.015	0.018	0.023	0.029	0.038	0.043	0.057	0.065	0.000	0.000	0.000	0.000
40	0.011	0.014	0.018	0.023	0.030	0.034	0.045	0.052	0.000	0.000	0.000	0.000
45	0.009	0.012	0.015	0.020	0.026	0.030	0.041	0.048	0.000	0.000	0.000	0.000
50	0.008	0.011	0.015	0.020	0.027	0.031	0.043	0.051	0.000	0.000	0.000	0.000
55	0.009	0.013	0.017	0.024	0.033	0.039	0.054	0.064	0.000	0.000	0.000	0.000
60	0.012	0.017	0.024	0.034	0.048	0.057	0.081	0.097	0.000	0.000	0.000	0.000
65	0.021	0.029	0.041	0.059	0.085	0.102	0.146	0.176	0.000	0.000	0.000	0.000

MEDIUM DUTY TRUCKS NON-CATALYST

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	1.284	1.423	1.578	1.749	1.939	2.041	2.263	2.382	0.000	0.000	0.000	0.000
10	0.859	0.952	1.055	1.170	1.296	1.365	1.513	1.593	0.000	0.000	0.000	0.000
15	0.575	0.637	0.706	0.783	0.868	0.914	1.013	1.066	0.000	0.000	0.000	0.000
16	0.531	0.588	0.652	0.723	0.801	0.843	0.935	0.984	0.000	0.000	0.000	0.000
20	0.385	0.427	0.473	0.525	0.581	0.612	0.679	0.714	0.000	0.000	0.000	0.000
25	0.258	0.286	0.317	0.352	0.390	0.411	0.455	0.479	0.000	0.000	0.000	0.000

30	0.173	0.192	0.213	0.236	0.262	0.276	0.306	0.322	0.000	0.000	0.000	0.000
35	0.117	0.129	0.143	0.159	0.176	0.185	0.205	0.216	0.000	0.000	0.000	0.000
40	0.078	0.087	0.096	0.107	0.118	0.125	0.138	0.145	0.000	0.000	0.000	0.000
45	0.053	0.059	0.065	0.072	0.080	0.084	0.093	0.098	0.000	0.000	0.000	0.000
50	0.036	0.039	0.044	0.048	0.054	0.057	0.063	0.066	0.000	0.000	0.000	0.000
55	0.024	0.027	0.030	0.033	0.036	0.038	0.042	0.045	0.000	0.000	0.000	0.000
60	0.016	0.018	0.020	0.022	0.024	0.026	0.029	0.030	0.000	0.000	0.000	0.000
65	0.011	0.012	0.013	0.015	0.017	0.017	0.019	0.020	0.000	0.000	0.000	0.000

MEDIUM DUTY TRUCKS CATALYST EQUIPPED

SPEED MPH	30	40	50	60	70	75	85	90	95	100	105	110
				T E M P E R A T U R E IN DEG. F								
5	0.316	0.450	0.646	0.934	1.356	1.636	2.387	2.887	0.000	0.000	0.000	0.000
10	0.119	0.166	0.233	0.331	0.474	0.568	0.821	0.989	0.000	0.000	0.000	0.000
15	0.055	0.074	0.101	0.141	0.198	0.236	0.337	0.403	0.000	0.000	0.000	0.000
16	0.048	0.064	0.087	0.121	0.170	0.202	0.287	0.344	0.000	0.000	0.000	0.000
20	0.029	0.038	0.052	0.070	0.098	0.115	0.163	0.194	0.000	0.000	0.000	0.000
25	0.017	0.023	0.030	0.040	0.056	0.065	0.092	0.109	0.000	0.000	0.000	0.000
30	0.011	0.015	0.020	0.026	0.036	0.042	0.059	0.071	0.000	0.000	0.000	0.000
35	0.008	0.011	0.014	0.019	0.027	0.031	0.044	0.053	0.000	0.000	0.000	0.000
40	0.006	0.009	0.012	0.016	0.023	0.027	0.038	0.046	0.000	0.000	0.000	0.000
45	0.006	0.008	0.011	0.016	0.022	0.027	0.039	0.046	0.000	0.000	0.000	0.000
50	0.006	0.009	0.013	0.018	0.026	0.032	0.046	0.056	0.000	0.000	0.000	0.000
55	0.008	0.012	0.018	0.026	0.038	0.045	0.066	0.081	0.000	0.000	0.000	0.000
60	0.014	0.020	0.030	0.043	0.064	0.077	0.114	0.138	0.000	0.000	0.000	0.000
65	0.028	0.040	0.060	0.088	0.129	0.157	0.231	0.281	0.000	0.000	0.000	0.000

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 1A: TEMPERATURE CORRECTION FACTORS FOR RUNNING EXHAUST EMISSION RATES

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
POLLUTANT NAME: REACTIVE ORGANIC GASES																	
30	1.65	1.19	N/A	1.65	1.21	N/A	1.65	1.01	1.25	1.40	N/A	1.24	1.40	N/A	N/A	N/A	1.02
40	1.48	1.14	N/A	1.47	1.15	N/A	1.48	1.00	1.19	1.30	N/A	1.18	1.30	N/A	N/A	N/A	1.01
50	1.32	1.07	N/A	1.32	1.08	N/A	1.32	0.99	1.13	1.20	N/A	1.13	1.20	N/A	N/A	N/A	1.01
60	1.18	1.01	N/A	1.18	1.01	N/A	1.18	0.98	1.08	1.12	N/A	1.07	1.12	N/A	N/A	N/A	1.01
70	1.06	0.99	N/A	1.06	0.99	N/A	1.06	0.99	1.02	1.04	N/A	1.02	1.04	N/A	N/A	N/A	1.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.05	1.09	N/A	1.05	1.09	N/A	1.05	1.05	1.15	1.23	N/A	1.11	1.23	N/A	N/A	N/A	1.03
90	1.08	1.17	N/A	1.07	1.18	N/A	1.08	1.09	1.23	1.36	N/A	1.17	1.36	N/A	N/A	N/A	1.04
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
POLLUTANT NAME: CARBON MONOXIDE																	
30	1.93	1.23	N/A	1.93	1.26	N/A	1.93	1.13	1.20	1.41	N/A	1.19	1.41	N/A	N/A	N/A	1.02
40	1.67	1.13	N/A	1.67	1.14	N/A	1.67	1.07	1.15	1.31	N/A	1.14	1.31	N/A	N/A	N/A	1.01
50	1.44	1.05	N/A	1.44	1.05	N/A	1.44	1.02	1.10	1.21	N/A	1.10	1.21	N/A	N/A	N/A	1.01
60	1.24	1.00	N/A	1.24	1.00	N/A	1.24	0.99	1.06	1.12	N/A	1.06	1.12	N/A	N/A	N/A	1.01
70	1.08	0.99	N/A	1.08	0.99	N/A	1.08	0.99	1.02	1.04	N/A	1.02	1.04	N/A	N/A	N/A	1.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.16	1.06	N/A	1.16	1.06	N/A	1.16	1.05	1.27	1.31	N/A	1.27	1.31	N/A	N/A	N/A	1.28

90	1.25	1.11	N/A	1.25	1.12	N/A	1.25	1.09	1.43	1.50	N/A	1.43	1.50	N/A	N/A	N/A	1.45
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
POLLUTANT NAME: OXIDES OF NITROGEN																	
30	1.30	1.43	N/A	1.30	1.43	N/A	1.30	1.40	1.16	1.30	N/A	1.13	1.30	N/A	N/A	N/A	1.31
40	1.23	1.35	N/A	1.23	1.35	N/A	1.23	1.33	1.12	1.22	N/A	1.10	1.22	N/A	N/A	N/A	1.23
50	1.16	1.24	N/A	1.16	1.24	N/A	1.16	1.23	1.09	1.15	N/A	1.07	1.15	N/A	N/A	N/A	1.16
60	1.09	1.13	N/A	1.09	1.13	N/A	1.09	1.12	1.05	1.09	N/A	1.04	1.09	N/A	N/A	N/A	1.09
70	1.03	1.03	N/A	1.03	1.03	N/A	1.03	1.03	1.02	1.03	N/A	1.01	1.03	N/A	N/A	N/A	1.03
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	1.00
85	1.00	0.98	N/A	1.00	0.98	N/A	1.00	0.99	1.17	1.24	N/A	1.18	1.24	N/A	N/A	N/A	0.91
90	1.00	1.01	N/A	1.00	1.01	N/A	1.00	1.01	1.27	1.38	N/A	1.28	1.38	N/A	N/A	N/A	0.87
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
POLLUTANT NAME: CARBON DIOXIDE																	
30	1.93	1.12	N/A	1.93	1.13	N/A	1.93	1.08	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
40	1.67	1.06	N/A	1.67	1.07	N/A	1.67	1.04	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
50	1.44	1.02	N/A	1.44	1.02	N/A	1.44	1.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
60	1.24	0.99	N/A	1.24	0.99	N/A	1.24	0.99	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
70	1.08	0.99	N/A	1.08	0.99	N/A	1.08	0.99	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
85	1.16	1.05	N/A	1.16	1.05	N/A	1.16	1.04	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
90	1.25	1.09	N/A	1.25	1.09	N/A	1.25	1.08	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	0.00

1 Scenario Title: MVEI7G Emission Factors Scenario REPORT RUN DATE: 05/28/97
YEAR: 1997 -- MODEL YEARS 1963 TO 1997 INCLUSIVE -- SUMMERTIME
EMFAC7G EMISSION FACTORS

TABLE 2A: TEMPERATURE CORRECTION FACTORS FOR VARIABLE STARTS

TEMP	LIGHT DUTY AUTOS			LIGHT DUTY TRUCKS			MD. DUTY TRUCKS		LIGHT HEAVY TRUCKS			MEDIUM HEAVY TRUCKS			HH TRK	URBAN BUS	MCY
DEG F	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	NCAT	CAT	NCAT	CAT	DIESEL	NCAT	CAT	DIESEL	DIESEL	DIESEL	ALL
POLLUTANT NAME: REACTIVE ORGANIC GASES																	
30	3.82	3.67	N/A	3.82	3.89	N/A	3.83	3.40	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.25
40	2.84	2.94	N/A	2.84	3.11	N/A	2.84	2.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.41
50	2.11	2.24	N/A	2.11	2.35	N/A	2.11	2.10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.57
60	1.56	1.63	N/A	1.56	1.69	N/A	1.56	1.56	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73
70	1.16	1.17	N/A	1.16	1.18	N/A	1.16	1.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.91
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00
85	1.05	0.84	N/A	1.05	0.82	N/A	1.05	0.87	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.39
90	1.07	0.86	N/A	1.07	0.84	N/A	1.07	0.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.61
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
POLLUTANT NAME: CARBON MONOXIDE																	
30	5.52	3.69	N/A	1.00	3.80	N/A	1.00	3.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.02

40	4.52	3.14	N/A	1.00	3.23	N/A	1.00	3.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.15
50	3.51	2.48	N/A	1.00	2.54	N/A	1.00	2.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.37
60	2.51	1.81	N/A	1.00	1.85	N/A	1.00	1.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.61
70	1.50	1.23	N/A	1.00	1.24	N/A	1.00	1.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.87
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00
85	1.06	0.73	N/A	1.06	0.71	N/A	1.06	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.34
90	1.10	0.71	N/A	1.10	0.68	N/A	1.10	0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.56
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

POLLUTANT NAME: OXIDES OF NITROGEN

30	1.41	1.32	N/A	1.41	1.32	N/A	1.41	1.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.77
40	1.31	1.29	N/A	1.31	1.29	N/A	1.31	1.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.35
50	1.21	1.22	N/A	1.21	1.22	N/A	1.21	1.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.21
60	1.12	1.12	N/A	1.12	1.12	N/A	1.12	1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.12
70	1.04	1.03	N/A	1.04	1.03	N/A	1.04	1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.04
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.00
85	1.00	0.96	N/A	1.00	0.96	N/A	1.00	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.87
90	1.00	0.97	N/A	1.00	0.97	N/A	1.00	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.81
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00

POLLUTANT NAME: CARBON DIOXIDE

30	1.00	3.40	N/A	1.00	3.54	N/A	1.00	3.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
40	1.00	2.92	N/A	1.00	3.03	N/A	1.00	2.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
50	1.00	2.33	N/A	1.00	2.40	N/A	1.00	2.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
60	1.00	1.72	N/A	1.00	1.77	N/A	1.00	1.72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
70	1.00	1.20	N/A	1.00	1.21	N/A	1.00	1.20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
75	1.00	1.00	N/A	1.00	1.00	N/A	1.00	1.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
85	1.06	0.77	N/A	1.06	0.76	N/A	1.06	0.78	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
90	1.10	0.77	N/A	1.10	0.75	N/A	1.10	0.79	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
95	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
100	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
105	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00
110	0.00	0.00	N/A	0.00	0.00	N/A	0.00	0.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00