

## Attachment I

### Updated Emission Reduction Tables for Retired (Gasoline) Carl Moyer Program Light-Duty Vehicle Projects

Tables 13-6 and 13-7 below denote the fleet average emission rates over a three year project life by model year (MY) for light-duty vehicles (LDV) retired in calendar years (CY) 2016 and 2017. The emission rates for Exhaust and Evaporative (Evap) Reactive Organic Gases (ROG), Carbon Monoxide (CO), Oxides of Nitrogen (NOx), and Particulate Matter (PM10) emitted from LDV's are developed utilizing the Air Resources Board's 2014 Emission Factor (EMFAC) model.

**Table 13-6  
Retired Vehicle Emission Reductions, CY 2016 (lbs/3yr)**

MY	ROG			CO Exhaust	NOx Exhaust	PM10 Exhaust
	Exhaust	Evap	Total			
pre 1973	199.8	176.5	376.3	2256.1	141.8	2.21
1973	205.0	177.2	382.2	2320.3	146.1	2.28
1974	204.0	136.9	340.8	2354.3	147.3	2.35
1975	165.1	123.8	288.9	2388.5	146.3	2.37
1976	162.4	108.8	271.2	3377.2	182.9	2.43
1977	166.7	87.7	254.4	3577.3	194.7	2.40
1978	77.6	89.4	166.9	2140.6	107.5	2.41
1979	72.9	88.6	161.5	1742.7	102.8	2.44
1980	68.3	82.7	150.9	1602.4	106.1	2.38
1981	58.8	77.5	136.3	1210.8	83.7	0.94
1982	55.2	93.9	149.1	1176.6	84.3	0.95
1983	46.5	118.6	165.1	1032.4	85.0	0.92
1984	46.6	118.3	164.9	1064.0	90.5	0.94
1985	38.9	116.4	155.3	810.3	88.5	0.96
1986	37.3	129.1	166.4	775.2	89.4	0.98
1987	36.3	117.6	153.9	722.0	86.9	1.01
1988	32.0	114.8	146.8	594.2	85.0	1.04
1989	34.0	99.6	133.6	640.2	76.3	1.05
1990	34.7	88.4	123.1	637.4	66.0	1.04
1991	35.3	65.1	100.4	652.0	68.2	0.55
1992	36.2	62.9	99.2	657.0	71.7	0.57
1993	32.1	60.0	92.2	517.3	69.6	0.59
1994	26.8	57.2	84.0	379.2	63.9	0.60
1995	22.7	48.9	71.6	279.8	51.4	0.60
1996	17.8	38.8	56.6	236.7	38.4	0.13
1997	16.7	29.6	46.3	241.2	36.5	0.14
1998	12.7	10.8	23.5	218.6	30.5	0.14
1999	10.0	9.7	19.6	205.4	27.8	0.14
2000	6.2	8.3	14.5	180.7	21.5	0.14
2001	5.3	7.1	12.4	166.5	19.9	0.14
2002	5.0	5.8	10.9	166.1	19.8	0.14
2003	4.3	4.0	8.3	161.2	19.1	0.15

Source: EMFAC2014 V1.0.7

**Table 13-7  
Retired Vehicle Emission Reductions, CY 2017 (lbs/3yr)**

MY	ROG			CO Exhaust	NOx Exhaust	PM10 Exhaust
	Exhaust	Evap	Total			
pre 1974	201.2	176.3	377.5	2272.1	143.3	2.24
1974	201.3	136.9	338.2	2310.5	144.9	2.30
1975	162.3	124.3	286.6	2343.5	144.6	2.32
1976	161.3	108.2	269.5	3343.0	182.1	2.38
1977	164.7	87.6	252.3	3519.9	192.2	2.36
1978	76.0	89.4	165.3	2095.9	105.4	2.36
1979	71.7	88.6	160.3	1717.1	101.2	2.39
1980	66.8	82.8	149.6	1572.3	103.9	2.34
1981	57.5	77.6	135.1	1184.0	82.0	0.92
1982	54.1	94.2	148.3	1151.8	82.6	0.93
1983	45.6	120.2	165.8	1013.3	83.5	0.90
1984	45.7	119.6	165.3	1043.5	88.9	0.92
1985	38.2	117.7	155.8	795.9	87.1	0.93
1986	36.6	131.0	167.6	762.4	88.1	0.96
1987	35.1	119.7	154.8	704.5	85.0	0.99
1988	31.6	117.4	149.0	589.3	84.3	1.02
1989	33.5	103.6	137.0	631.9	75.7	1.02
1990	34.5	92.9	127.4	632.4	66.4	1.02
1991	35.1	68.0	103.1	649.2	68.7	0.54
1992	36.1	66.2	102.3	654.3	72.3	0.56
1993	32.1	63.8	95.9	518.2	70.4	0.57
1994	26.8	61.4	88.2	383.6	64.8	0.59
1995	23.0	52.7	75.7	286.9	52.7	0.59
1996	18.4	42.0	60.4	245.8	39.7	0.13
1997	17.3	32.4	49.7	250.6	37.8	0.13
1998	13.3	12.3	25.6	226.8	31.7	0.13
1999	10.5	11.2	21.7	213.1	29.0	0.13
2000	6.9	9.9	16.7	189.6	22.8	0.13
2001	6.0	8.7	14.7	177.3	21.4	0.14
2002	5.7	7.4	13.1	176.8	21.1	0.14
2003	4.9	5.6	10.6	172.3	20.5	0.14

Source: EMFAC2014 V1.0.7