

H-258
 TABLE 7.1.1
 NONTAMPERED EXHAUST EMISSION RATES FOR
 LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 * BER = ZML + (DR * M)

| Pol | Model Years | Zero Mile Emission Level | Deterioration Rate | 50,000 Mile Emission Level | 100,000 Mile Emission Level |
|-------|-------------|--------------------------|--------------------|----------------------------|-----------------------------|
| HC | Pre-1967 | 3.540 | 0.060 | 3.840 | 4.140 |
| | 1967-1968 | 3.660 | 0.060 | 3.960 | 4.260 |
| | 1969 | 3.780 | 0.060 | 4.080 | 4.380 |
| | 1970 | 3.810 | 0.060 | 4.110 | 4.410 |
| | 1971-1973 | 3.910 | 0.060 | 4.210 | 4.510 |
| | 1974-1976 | 3.910 | 0.060 | 4.210 | 4.510 |
| | 1977 | 3.990 | 0.060 | 4.290 | 4.590 |
| | 1978 | 3.920 | 0.060 | 4.220 | 4.520 |
| | 1979 | 3.510 | 0.000 | 3.510 | 3.510 |
| | 1980-1981 | 3.170 | 0.000 | 3.170 | 3.170 |
| | 1982 | 2.780 | 0.000 | 2.780 | 2.780 |
| | 1983 | 2.660 | 0.000 | 2.660 | 2.660 |
| | 1984 | 2.820 | 0.000 | 2.820 | 2.820 |
| | 1985 | 2.590 | 0.000 | 2.590 | 2.590 |
| | 1986 | 2.280 | 0.000 | 2.280 | 2.280 |
| | 1987 | 2.230 | 0.000 | 2.230 | 2.230 |
| | 1988-1989 | 2.180 | 0.000 | 2.180 | 2.180 |
| | 1990 | 2.130 | 0.000 | 2.130 | 2.130 |
| | 1991-1997 | 2.100 | 0.000 | 2.100 | 2.100 |
| | 1998-2000 | 2.100 | 0.000 | 2.100 | 2.100 |
| 2001+ | 2.100 | 0.000 | 2.100 | 2.100 | |
| CO | Pre-1967 | 10.320 | 0.140 | 11.020 | 11.720 |
| | 1967-1968 | 10.690 | 0.150 | 11.440 | 12.190 |
| | 1969 | 11.040 | 0.150 | 11.790 | 12.540 |
| | 1970 | 11.130 | 0.150 | 11.880 | 12.630 |
| | 1971-1973 | 11.420 | 0.160 | 12.220 | 13.020 |
| | 1974-1976 | 11.420 | 0.160 | 12.220 | 13.020 |
| | 1977 | 11.650 | 0.160 | 12.450 | 13.250 |
| | 1978 | 11.440 | 0.160 | 12.240 | 13.040 |
| | 1979 | 14.040 | 0.120 | 14.640 | 15.240 |
| | 1980-1981 | 12.670 | 0.110 | 13.220 | 13.770 |
| | 1982 | 11.120 | 0.100 | 11.620 | 12.120 |
| | 1983 | 10.660 | 0.090 | 11.110 | 11.560 |
| | 1984 | 11.260 | 0.100 | 11.760 | 12.260 |
| | 1985 | 10.350 | 0.090 | 10.800 | 11.250 |
| | 1986 | 10.360 | 0.090 | 10.810 | 11.260 |
| | 1987 | 10.140 | 0.090 | 10.590 | 11.040 |
| | 1988-1989 | 9.900 | 0.080 | 10.300 | 10.700 |
| | 1990 | 9.670 | 0.080 | 10.070 | 10.470 |
| | 1991-1997 | 9.540 | 0.080 | 9.940 | 10.340 |
| | 1998-2000 | 9.530 | 0.080 | 9.930 | 10.330 |
| 2001+ | 9.520 | 0.080 | 9.920 | 10.320 | |
| NOx | Pre-1967 | 22.990 | 0.170 | 23.840 | 24.690 |
| | 1967-1968 | 23.830 | 0.180 | 24.730 | 25.630 |
| | 1969 | 24.590 | 0.180 | 25.490 | 26.390 |
| | 1970 | 24.800 | 0.190 | 25.750 | 26.700 |
| | 1971-1973 | 25.460 | 0.190 | 26.410 | 27.360 |
| | 1974-1976 | 25.440 | 0.190 | 26.390 | 27.340 |
| | 1977 | 25.970 | 0.190 | 26.920 | 27.870 |
| | 1978 | 25.500 | 0.190 | 26.450 | 27.400 |
| | 1979 | 23.780 | 0.000 | 23.780 | 23.780 |
| | 1980-1981 | 21.470 | 0.000 | 21.470 | 21.470 |
| | 1982 | 18.840 | 0.000 | 18.840 | 18.840 |
| | 1983 | 18.060 | 0.000 | 18.060 | 18.060 |
| | 1984 | 19.080 | 0.000 | 19.080 | 19.080 |
| | 1985 | 17.530 | 0.000 | 17.530 | 17.530 |
| | 1986 | 17.560 | 0.000 | 17.560 | 17.560 |
| | 1987 | 17.180 | 0.000 | 17.180 | 17.180 |
| | 1988-1989 | 16.770 | 0.000 | 16.770 | 16.770 |
| | 1990 | 9.870 | 0.000 | 9.870 | 9.870 |
| | 1991-1997 | 8.130 | 0.000 | 8.130 | 8.130 |
| | 1998-2000 | 6.490 | 0.000 | 6.490 | 6.490 |
| 2001+ | 6.490 | 0.000 | 6.490 | 6.490 | |

* WHERE : BER = Nontampered basic exhaust emission rates in grams/mile,
 ZML = Zero mile level in grams/mile,
 DR = Deterioration rate in grams/mile/10K miles,
 M = Cumulative mileage / 10,000 miles.
 DATE : JUNE 30, 1995

H-259
 TABLE 7.1.2
 NONTAMPERED EXHAUST EMISSION RATES FOR
 HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 * BER = ZML + (DR * M)

| Pol | Model Years | Zero Mile Emission Level | Deterioration Rate | 50,000 Mile Emission Level | 100,000 Mile Emission Level |
|-------|-------------|--------------------------|--------------------|----------------------------|-----------------------------|
| HC | Pre-1967 | 8.130 | 0.060 | 8.430 | 8.730 |
| | 1967-1968 | 8.430 | 0.060 | 8.730 | 9.030 |
| | 1969 | 8.700 | 0.060 | 9.000 | 9.300 |
| | 1970 | 8.770 | 0.060 | 9.070 | 9.370 |
| | 1971-1973 | 9.010 | 0.060 | 9.310 | 9.610 |
| | 1974-1976 | 9.000 | 0.060 | 9.300 | 9.600 |
| | 1977 | 9.190 | 0.060 | 9.490 | 9.790 |
| | 1978 | 9.020 | 0.060 | 9.320 | 9.620 |
| | 1979 | 8.070 | 0.000 | 8.070 | 8.070 |
| | 1980-1981 | 7.280 | 0.000 | 7.280 | 7.280 |
| | 1982 | 6.370 | 0.000 | 6.370 | 6.370 |
| | 1983 | 6.130 | 0.000 | 6.130 | 6.130 |
| | 1984 | 6.470 | 0.000 | 6.470 | 6.470 |
| | 1985 | 5.950 | 0.000 | 5.950 | 5.950 |
| | 1986 | 5.250 | 0.000 | 5.250 | 5.250 |
| | 1987 | 5.140 | 0.000 | 5.140 | 5.140 |
| | 1988-1989 | 5.010 | 0.000 | 5.010 | 5.010 |
| | 1990 | 4.900 | 0.000 | 4.900 | 4.900 |
| | 1991-1997 | 4.830 | 0.000 | 4.830 | 4.830 |
| | 1998-2000 | 4.820 | 0.000 | 4.820 | 4.820 |
| 2001+ | 4.820 | 0.000 | 4.820 | 4.820 | |
| CO | Pre-1967 | 18.050 | 0.140 | 18.750 | 19.450 |
| | 1967-1968 | 18.710 | 0.150 | 19.460 | 20.210 |
| | 1969 | 19.300 | 0.150 | 20.050 | 20.800 |
| | 1970 | 19.470 | 0.150 | 20.220 | 20.970 |
| | 1971-1973 | 19.990 | 0.160 | 20.790 | 21.590 |
| | 1974-1976 | 19.970 | 0.160 | 20.770 | 21.570 |
| | 1977 | 20.380 | 0.160 | 21.180 | 21.980 |
| | 1978 | 20.010 | 0.160 | 20.810 | 21.610 |
| | 1979 | 24.560 | 0.120 | 25.160 | 25.760 |
| | 1980-1981 | 22.170 | 0.110 | 22.720 | 23.270 |
| | 1982 | 19.390 | 0.090 | 19.840 | 20.290 |
| | 1983 | 18.650 | 0.090 | 19.100 | 19.550 |
| | 1984 | 19.710 | 0.100 | 20.210 | 20.710 |
| | 1985 | 18.110 | 0.090 | 18.560 | 19.010 |
| | 1986 | 18.130 | 0.090 | 18.580 | 19.030 |
| | 1987 | 17.750 | 0.090 | 18.200 | 18.650 |
| | 1988-1989 | 17.320 | 0.080 | 17.720 | 18.120 |
| | 1990 | 16.920 | 0.080 | 17.320 | 17.720 |
| | 1991-1997 | 16.690 | 0.080 | 17.090 | 17.490 |
| | 1998-2000 | 16.670 | 0.080 | 17.070 | 17.470 |
| 2001+ | 16.660 | 0.080 | 17.060 | 17.460 | |
| NOx | Pre-1967 | 22.990 | 0.170 | 23.840 | 24.690 |
| | 1967-1968 | 23.830 | 0.180 | 24.730 | 25.630 |
| | 1969 | 24.590 | 0.180 | 25.490 | 26.390 |
| | 1970 | 24.800 | 0.190 | 25.750 | 26.700 |
| | 1971-1973 | 25.460 | 0.190 | 26.410 | 27.360 |
| | 1974-1976 | 25.440 | 0.190 | 26.390 | 27.340 |
| | 1977 | 25.970 | 0.190 | 26.920 | 27.870 |
| | 1978 | 25.500 | 0.190 | 26.450 | 27.400 |
| | 1979 | 23.780 | 0.000 | 23.780 | 23.780 |
| | 1980-1981 | 21.470 | 0.000 | 21.470 | 21.470 |
| | 1982 | 18.770 | 0.000 | 18.770 | 18.770 |
| | 1983 | 18.060 | 0.000 | 18.060 | 18.060 |
| | 1984 | 19.080 | 0.000 | 19.080 | 19.080 |
| | 1985 | 17.530 | 0.000 | 17.530 | 17.530 |
| | 1986 | 17.560 | 0.000 | 17.560 | 17.560 |
| | 1987 | 17.180 | 0.000 | 17.180 | 17.180 |
| | 1988-1989 | 16.770 | 0.000 | 16.770 | 16.770 |
| | 1990 | 9.870 | 0.000 | 9.870 | 9.870 |
| | 1991-1997 | 8.130 | 0.000 | 8.130 | 8.130 |
| | 1998-2000 | 6.490 | 0.000 | 6.490 | 6.490 |
| 2001+ | 6.490 | 0.000 | 6.490 | 6.490 | |

* WHERE : BER = Nontampered basic exhaust emission rates in grams/mile,
 ZML = Zero mile level in grams/mile,
 DR = Deterioration rate in grams/mile/10K miles,
 M = Cumulative mileage / 10,000 miles.
 DATE : JUNE 30, 1995

TABLE 7.4

REGISTRATION MIX AND
MILEAGE ACCUMULATION RATES FOR
HEAVY DUTY DIESEL POWERED VEHICLES

| Model Year Index** | July 1 Registration Mix* | Mileage Accumulation Rate (per vehicle*) | Jan 1 Registration Mix | Jan 1 Mileage Accumulation Rate*** (fleet) | Jan 1 Mileage Accumulation (fleet) |
|--------------------------|--------------------------------|---|------------------------------|--|---|
| 1 | 0.034 | 0. | 0.000 | 0. | 0. |
| 2 | 0.067 | 0. | 0.069 | 35129. | 17565. |
| 3 | 0.067 | 0. | 0.069 | 32846. | 51552. |
| 4 | 0.067 | 0. | 0.069 | 30738. | 83344. |
| 5 | 0.067 | 0. | 0.069 | 28792. | 113109. |
| 6 | 0.073 | 0. | 0.075 | 26991. | 141001. |
| 7 | 0.061 | 0. | 0.063 | 25325. | 167159. |
| 8 | 0.040 | 0. | 0.041 | 23781. | 191712. |
| 9 | 0.041 | 0. | 0.042 | 22348. | 214776. |
| 10 | 0.051 | 0. | 0.053 | 21018. | 236459. |
| 11 | 0.053 | 0. | 0.055 | 19781. | 256858. |
| 12 | 0.066 | 0. | 0.068 | 18630. | 276064. |
| 13 | 0.055 | 0. | 0.057 | 17558. | 294159. |
| 14 | 0.057 | 0. | 0.059 | 16559. | 311217. |
| 15 | 0.045 | 0. | 0.046 | 15627. | 327311. |
| 16 | 0.019 | 0. | 0.020 | 14756. | 342502. |
| 17 | 0.023 | 0. | 0.024 | 13942. | 356851. |
| 18 | 0.028 | 0. | 0.029 | 13181. | 370413. |
| 19 | 0.024 | 0. | 0.025 | 12468. | 383237. |
| 20 | 0.016 | 0. | 0.017 | 11799. | 395370. |
| 21 | 0.011 | 0. | 0.011 | 11173. | 406856. |
| 22 | 0.009 | 0. | 0.009 | 10584. | 417735. |
| 23 | 0.007 | 0. | 0.007 | 10031. | 428042. |
| 24 | 0.005 | 0. | 0.005 | 9512. | 437814. |
| 25+ | 0.016 | 0. | 0.017 | 9023. | 447082. |

* Default information that may be altered by the MOBILE5a user with information about the local area.
This mileage distribution is applicable to calendar year 1995 only.

** The indices refer to the most recent model year vehicles in any given calendar year. Index 1 references the newest model year vehicles and index 25+ references the oldest model year vehicles.

*** Sales weighted fleet mileage accumulation adjusted to January 1, where: $JMAR(1) = 0$ and,
 $JMAR(MYI) = MAR(MYI-1)$, $MYI = 2, \dots, 25+$.

DATE : JUNE 30, 1995

TABLE 7.5

EXAMPLE TRAVEL WEIGHTING FRACTION CALCULATION FOR
HEAVY DUTY DIESEL POWERED VEHICLES
JANUARY 1, 1995

| Model Years | (A) HDDV Fleet Registration | (B) Sales Fraction | (C=A*B/DAF) HDDV Registration (A*B) | (D) Annual Mileage Accrual Rate | (C*D/TFNORM) Travel Fractions (C*D) | | |
|----------------|-----------------------------------|--------------------------|--|---------------------------------------|--|--------|-------|
| 1995 | 0.000 | 1.000 | 0.000 | 0.000 | 0.0 | 0.000 | |
| 1994 | 0.067 | 1.000 | 0.067 | 0.069 | 35129. | 2431.4 | 0.108 |
| 1993 | 0.067 | 1.000 | 0.067 | 0.069 | 32846. | 2273.4 | 0.101 |
| 1992 | 0.067 | 1.000 | 0.067 | 0.069 | 30738. | 2127.6 | 0.094 |
| 1991 | 0.067 | 1.000 | 0.067 | 0.069 | 28792. | 1992.8 | 0.088 |
| 1990 | 0.073 | 1.000 | 0.073 | 0.075 | 26991. | 2035.5 | 0.090 |
| 1989 | 0.061 | 1.000 | 0.061 | 0.063 | 25325. | 1595.9 | 0.071 |
| 1988 | 0.040 | 1.000 | 0.040 | 0.041 | 23781. | 982.7 | 0.044 |
| 1987 | 0.041 | 1.000 | 0.041 | 0.042 | 22348. | 946.6 | 0.042 |
| 1986 | 0.051 | 1.000 | 0.051 | 0.053 | 21018. | 1107.3 | 0.049 |
| 1985 | 0.053 | 1.000 | 0.053 | 0.055 | 19781. | 1083.1 | 0.048 |
| 1984 | 0.066 | 1.000 | 0.066 | 0.068 | 18630. | 1270.2 | 0.056 |
| 1983 | 0.055 | 1.000 | 0.055 | 0.057 | 17558. | 997.6 | 0.044 |
| 1982 | 0.057 | 1.000 | 0.057 | 0.059 | 16559. | 975.1 | 0.043 |
| 1981 | 0.045 | 1.000 | 0.045 | 0.046 | 15627. | 726.5 | 0.032 |
| 1980 | 0.019 | 1.000 | 0.019 | 0.020 | 14756. | 289.6 | 0.013 |
| 1979 | 0.023 | 1.000 | 0.023 | 0.024 | 13942. | 331.3 | 0.015 |
| 1978 | 0.028 | 1.000 | 0.028 | 0.029 | 13181. | 381.3 | 0.017 |
| 1977 | 0.024 | 1.000 | 0.024 | 0.025 | 12468. | 309.1 | 0.014 |
| 1976 | 0.016 | 1.000 | 0.016 | 0.017 | 11799. | 195.0 | 0.009 |
| 1975 | 0.011 | 1.000 | 0.011 | 0.011 | 11173. | 127.0 | 0.006 |
| 1974 | 0.009 | 1.000 | 0.009 | 0.009 | 10584. | 98.4 | 0.004 |
| 1973 | 0.007 | 1.000 | 0.007 | 0.007 | 10031. | 72.5 | 0.003 |
| 1972 | 0.005 | 1.000 | 0.005 | 0.005 | 9512. | 49.1 | 0.002 |
| 1971- | 0.016 | 1.000 | 0.016 | 0.017 | 9023. | 149.1 | 0.007 |

DAF: $\overline{0.968}$ TFNORM: $\overline{22548.2}$

WHERE :

- A = July 1 registration mix from Table 1.7.4,
- B = Diesel fleet sales fractions,
- D = Sales weighted fleet mileage accumulation rate from Table 1.7.4.

For the first model year (A*B) must be divided by 3 in order to properly adjust registration from July 1 to January 1.

DATE : JUNE 30, 1995

TABLE 7.6

SPEED CORRECTION FACTOR COEFFICIENTS FOR
HEAVY DUTY DIESEL POWERED VEHICLES

$$* SCF(s) = EXP(A + B*s + C*s**2)$$

| Pol | Model Years | Coefficients | | |
|-----|----------------|--------------|----------|---------|
| | | A | B | C |
| HC | All | 0.92400 | -0.05500 | 0.00044 |
| CO | All | 1.39600 | -0.08800 | 0.00091 |
| NOx | All | 0.67600 | -0.04800 | 0.00071 |

* WHERE: s = average speed (mph).

DATE : JUNE 30, 1995

TABLE 7.10A.1

METHANE OFFSETS*
FOR LOW ALTITUDE
HEAVY DUTY DIESEL POWERED VEHICLES

| Model Years | Methane Offsets (Grams/Mile) |
|----------------|---------------------------------|
| Pre-1978 | 0.145 |
| 1978-1981 | 0.145 |
| 1982-1987 | 0.118 |
| 1988+ | 0.100 |

* Methane offsets are used to estimate nonmethane hydrocarbon emissions (NMHC), i.e., $NMHC = \text{Total HC} - \text{Methane Offset}$.

DATE : JUNE 30, 1995

TABLE 7.10A.2

METHANE OFFSETS*
FOR HIGH ALTITUDE
HEAVY DUTY DIESEL POWERED VEHICLES

| Model Years | Methane Offsets (Grams/Mile) |
|----------------|---------------------------------|
| Pre-1978 | 0.333 |
| 1978-1981 | 0.333 |
| 1982-1987 | 0.271 |
| 1988+ | 0.230 |

* Methane offsets are used to estimate nonmethane hydrocarbon emissions (NMHC), i.e., $NMHC = \text{Total HC} - \text{Methane Offset}$.

DATE : JUNE 30, 1995

TABLE 7.10B

CONVERSION FACTORS FOR
HEAVY DUTY DIESEL POWERED VEHICLES

| Model Years | Conversion Factors* |
|----------------|------------------------|
| Pre-1963 | 2.850 |
| 1963 | 2.858 |
| 1964 | 2.874 |
| 1965 | 2.890 |
| 1966 | 2.900 |
| 1967 | 2.964 |
| 1968 | 2.995 |
| 1969 | 3.074 |
| 1970 | 3.100 |
| 1971 | 3.161 |
| 1972 | 3.197 |
| 1973 | 3.188 |
| 1974 | 3.213 |
| 1975 | 3.146 |
| 1976 | 3.179 |
| 1977 | 3.246 |
| 1978 | 3.187 |
| 1979 | 2.999 |
| 1980 | 2.716 |
| 1981 | 2.698 |
| 1982 | 2.376 |
| 1983 | 2.277 |
| 1984 | 2.406 |
| 1985 | 2.211 |
| 1986 | 2.214 |
| 1987 | 2.167 |
| 1988 | 2.132 |
| 1989 | 2.099 |
| 1990 | 2.066 |
| 1991 | 2.050 |
| 1992 | 2.033 |
| 1993 | 2.033 |
| 1994 | 2.033 |
| 1995 | 2.039 |
| 1996 | 2.039 |
| 1997 | 2.037 |
| 1998+ | 2.036 |

* Convert from grams/brake-horsepower/hour
to grams/mile units.

DATE : JUNE 30, 1995 (Corrected 3/6/98)

TABLE 7.11A.1
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 TOTAL NONMETHANE HC

DATE : JUNE 30, 1995

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 7.1 | 1962 | 7.0 | 1963 | 6.9 | 1964 | 6.8 | 1965 | 6.7 | 1966 | 6.6 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.7 | 1971 | 6.7 | 1972 | 6.7 |
| 1962 | 7.0 | 1963 | 6.9 | 1964 | 6.8 | 1965 | 6.7 | 1966 | 6.7 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.6 | 1971 | 6.7 | 1972 | 6.6 | 1973 | 6.6 |
| 1963 | 6.9 | 1964 | 6.9 | 1965 | 6.8 | 1966 | 6.7 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.6 | 1971 | 6.7 | 1972 | 6.6 | 1973 | 6.6 | 1974 | 6.5 |
| 1964 | 6.9 | 1965 | 6.8 | 1966 | 6.7 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.6 | 1971 | 6.7 | 1972 | 6.6 | 1973 | 6.6 | 1974 | 6.5 | 1975 | 6.5 |
| 1965 | 6.8 | 1966 | 6.7 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.6 | 1971 | 6.7 | 1972 | 6.6 | 1973 | 6.5 | 1974 | 6.5 | 1975 | 6.4 | 1976 | 6.4 |
| 1966 | 6.7 | 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.7 | 1970 | 6.6 | 1971 | 6.6 | 1972 | 6.6 | 1973 | 6.5 | 1974 | 6.5 | 1975 | 6.4 | 1976 | 6.4 | 1977 | 6.4 |
| 1967 | 6.7 | 1968 | 6.6 | 1969 | 6.6 | 1970 | 6.6 | 1971 | 6.6 | 1972 | 6.6 | 1973 | 6.5 | 1974 | 6.4 | 1975 | 6.4 | 1976 | 6.3 | 1977 | 6.4 | 1978 | 6.3 |
| 1968 | 6.6 | 1969 | 6.6 | 1970 | 6.6 | 1971 | 6.6 | 1972 | 6.5 | 1973 | 6.5 | 1974 | 6.4 | 1975 | 6.3 | 1976 | 6.3 | 1977 | 6.3 | 1978 | 6.2 | 1979 | 3.4 |
| 1969 | 6.6 | 1970 | 6.5 | 1971 | 6.6 | 1972 | 6.5 | 1973 | 6.4 | 1974 | 6.4 | 1975 | 6.3 | 1976 | 6.2 | 1977 | 6.3 | 1978 | 6.2 | 1979 | 3.4 | 1980 | 3.1 |
| 1970 | 6.5 | 1971 | 6.5 | 1972 | 6.4 | 1973 | 6.4 | 1974 | 6.3 | 1975 | 6.3 | 1976 | 6.2 | 1977 | 6.2 | 1978 | 6.1 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 |
| 1971 | 6.5 | 1972 | 6.4 | 1973 | 6.3 | 1974 | 6.3 | 1975 | 6.2 | 1976 | 6.1 | 1977 | 6.2 | 1978 | 6.1 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 |
| 1972 | 6.3 | 1973 | 6.3 | 1974 | 6.2 | 1975 | 6.1 | 1976 | 6.1 | 1977 | 6.1 | 1978 | 6.0 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 |
| 1973 | 6.2 | 1974 | 6.1 | 1975 | 6.1 | 1976 | 6.0 | 1977 | 6.0 | 1978 | 5.9 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 |
| 1974 | 6.0 | 1975 | 6.0 | 1976 | 5.9 | 1977 | 6.0 | 1978 | 5.8 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 |
| 1975 | 5.9 | 1976 | 5.8 | 1977 | 5.9 | 1978 | 5.7 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 |
| 1976 | 5.7 | 1977 | 5.7 | 1978 | 5.6 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 |
| 1977 | 5.6 | 1978 | 5.5 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 |
| 1978 | 5.3 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 |
| 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 |
| 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 |
| 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 |
| 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 | 1993 | 2.0 |
| 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 | 1993 | 2.0 | 1994 | 2.0 |
| 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 | 1993 | 2.0 | 1994 | 2.0 | 1995 | 2.0 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

Continued on the next page.

TABLE 7.11A.1 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 TOTAL NONMETHANE HC

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of Calendar Year 2005 | | 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|-----|------|-----|------|-----|------|-----|------|-----|------------------------------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 6.6 | 1974 | 6.6 | 1975 | 6.6 | 1976 | 6.5 | 1979 | 3.4 | 1981 | 3.1 | 1984 | 2.7 | 1986 | 2.2 | 1988 | 2.1 | 1991 | 2.0 | 1994 | 2.0 | 1996 | 2.0 |
| 1974 | 6.6 | 1975 | 6.5 | 1976 | 6.5 | 1977 | 6.6 | 1980 | 3.1 | 1982 | 2.7 | 1985 | 2.5 | 1987 | 2.1 | 1989 | 2.1 | 1992 | 2.0 | 1995 | 2.0 | 1997 | 2.0 |
| 1975 | 6.5 | 1976 | 6.5 | 1977 | 6.5 | 1978 | 6.4 | 1981 | 3.1 | 1983 | 2.6 | 1986 | 2.2 | 1988 | 2.1 | 1990 | 2.1 | 1993 | 2.0 | 1996 | 2.0 | 1998 | 2.0 |
| 1976 | 6.4 | 1977 | 6.5 | 1978 | 6.4 | 1979 | 3.4 | 1982 | 2.7 | 1984 | 2.7 | 1987 | 2.1 | 1989 | 2.1 | 1991 | 2.0 | 1994 | 2.0 | 1997 | 2.0 | 1999 | 2.0 |
| 1977 | 6.5 | 1978 | 6.4 | 1979 | 3.4 | 1980 | 3.1 | 1983 | 2.6 | 1985 | 2.5 | 1988 | 2.1 | 1990 | 2.1 | 1992 | 2.0 | 1995 | 2.0 | 1998 | 2.0 | 2000 | 2.0 |
| 1978 | 6.3 | 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1984 | 2.7 | 1986 | 2.2 | 1989 | 2.1 | 1991 | 2.0 | 1993 | 2.0 | 1996 | 2.0 | 1999 | 2.0 | 2001 | 2.0 |
| 1979 | 3.4 | 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1985 | 2.5 | 1987 | 2.1 | 1990 | 2.1 | 1992 | 2.0 | 1994 | 2.0 | 1997 | 2.0 | 2000 | 2.0 | 2002 | 2.0 |
| 1980 | 3.1 | 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1986 | 2.2 | 1988 | 2.1 | 1991 | 2.0 | 1993 | 2.0 | 1995 | 2.0 | 1998 | 2.0 | 2001 | 2.0 | 2003 | 2.0 |
| 1981 | 3.1 | 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1987 | 2.1 | 1989 | 2.1 | 1992 | 2.0 | 1994 | 2.0 | 1996 | 2.0 | 1999 | 2.0 | 2002 | 2.0 | 2004 | 2.0 |
| 1982 | 2.7 | 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1988 | 2.1 | 1990 | 2.1 | 1993 | 2.0 | 1995 | 2.0 | 1997 | 2.0 | 2000 | 2.0 | 2003 | 2.0 | 2005 | 2.0 |
| 1983 | 2.6 | 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1989 | 2.1 | 1991 | 2.0 | 1994 | 2.0 | 1996 | 2.0 | 1998 | 2.0 | 2001 | 2.0 | 2004 | 2.0 | 2006 | 2.0 |
| 1984 | 2.7 | 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1990 | 2.1 | 1992 | 2.0 | 1995 | 2.0 | 1997 | 2.0 | 1999 | 2.0 | 2002 | 2.0 | 2005 | 2.0 | 2007 | 2.0 |
| 1985 | 2.5 | 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1991 | 2.0 | 1993 | 2.0 | 1996 | 2.0 | 1998 | 2.0 | 2000 | 2.0 | 2003 | 2.0 | 2006 | 2.0 | 2008 | 2.0 |
| 1986 | 2.2 | 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1992 | 2.0 | 1994 | 2.0 | 1997 | 2.0 | 1999 | 2.0 | 2001 | 2.0 | 2004 | 2.0 | 2007 | 2.0 | 2009 | 2.0 |
| 1987 | 2.1 | 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1993 | 2.0 | 1995 | 2.0 | 1998 | 2.0 | 2000 | 2.0 | 2002 | 2.0 | 2005 | 2.0 | 2008 | 2.0 | 2010 | 2.0 |
| 1988 | 2.1 | 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1994 | 2.0 | 1996 | 2.0 | 1999 | 2.0 | 2001 | 2.0 | 2003 | 2.0 | 2006 | 2.0 | 2009 | 2.0 | 2011 | 2.0 |
| 1989 | 2.1 | 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 | 1995 | 2.0 | 1997 | 2.0 | 2000 | 2.0 | 2002 | 2.0 | 2004 | 2.0 | 2007 | 2.0 | 2010 | 2.0 | 2012 | 2.0 |
| 1990 | 2.1 | 1991 | 2.0 | 1992 | 2.0 | 1993 | 2.0 | 1996 | 2.0 | 1998 | 2.0 | 2001 | 2.0 | 2003 | 2.0 | 2005 | 2.0 | 2008 | 2.0 | 2011 | 2.0 | 2013 | 2.0 |
| 1991 | 2.0 | 1992 | 2.0 | 1993 | 2.0 | 1994 | 2.0 | 1997 | 2.0 | 1999 | 2.0 | 2002 | 2.0 | 2004 | 2.0 | 2006 | 2.0 | 2009 | 2.0 | 2012 | 2.0 | 2014 | 2.0 |
| 1992 | 2.0 | 1993 | 2.0 | 1994 | 2.0 | 1995 | 2.0 | 1998 | 2.0 | 2000 | 2.0 | 2003 | 2.0 | 2005 | 2.0 | 2007 | 2.0 | 2010 | 2.0 | 2013 | 2.0 | 2015 | 2.0 |
| 1993 | 2.0 | 1994 | 2.0 | 1995 | 2.0 | 1996 | 2.0 | 1999 | 2.0 | 2001 | 2.0 | 2004 | 2.0 | 2006 | 2.0 | 2008 | 2.0 | 2011 | 2.0 | 2014 | 2.0 | 2016 | 2.0 |
| 1994 | 2.0 | 1995 | 2.0 | 1996 | 2.0 | 1997 | 2.0 | 2000 | 2.0 | 2002 | 2.0 | 2005 | 2.0 | 2007 | 2.0 | 2009 | 2.0 | 2012 | 2.0 | 2015 | 2.0 | 2017 | 2.0 |
| 1995 | 2.0 | 1996 | 2.0 | 1997 | 2.0 | 1998 | 2.0 | 2001 | 2.0 | 2003 | 2.0 | 2006 | 2.0 | 2008 | 2.0 | 2010 | 2.0 | 2013 | 2.0 | 2016 | 2.0 | 2018 | 2.0 |
| 1996 | 2.0 | 1997 | 2.0 | 1998 | 2.0 | 1999 | 2.0 | 2002 | 2.0 | 2004 | 2.0 | 2007 | 2.0 | 2009 | 2.0 | 2011 | 2.0 | 2014 | 2.0 | 2017 | 2.0 | 2019 | 2.0 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

TABLE 7.11B.1
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 CO

DATE : JUNE 30, 1995

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | January 1 of Calendar Year 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|------|------|------|------|------|------|------|------|------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 19.1 | 1962 | 18.9 | 1963 | 18.7 | 1964 | 18.5 | 1965 | 18.2 | 1966 | 18.0 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.8 | 1970 | 18.7 | 1971 | 19.4 | 1972 | 19.3 |
| 1962 | 18.9 | 1963 | 18.7 | 1964 | 18.5 | 1965 | 18.3 | 1966 | 18.1 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.8 | 1970 | 18.7 | 1971 | 19.4 | 1972 | 19.2 | 1973 | 19.1 |
| 1963 | 18.7 | 1964 | 18.5 | 1965 | 18.3 | 1966 | 18.1 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.8 | 1970 | 18.7 | 1971 | 19.3 | 1972 | 19.2 | 1973 | 19.1 | 1974 | 19.0 |
| 1964 | 18.5 | 1965 | 18.3 | 1966 | 18.1 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.8 | 1970 | 18.7 | 1971 | 19.3 | 1972 | 19.1 | 1973 | 19.0 | 1974 | 18.9 | 1975 | 18.8 |
| 1965 | 18.3 | 1966 | 18.1 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.8 | 1970 | 18.7 | 1971 | 19.3 | 1972 | 19.1 | 1973 | 18.9 | 1974 | 18.8 | 1975 | 18.7 | 1976 | 18.6 |
| 1966 | 18.1 | 1967 | 18.8 | 1968 | 18.6 | 1969 | 18.7 | 1970 | 18.6 | 1971 | 19.2 | 1972 | 19.0 | 1973 | 18.9 | 1974 | 18.7 | 1975 | 18.6 | 1976 | 18.5 | 1977 | 18.6 |
| 1967 | 18.7 | 1968 | 18.5 | 1969 | 18.7 | 1970 | 18.6 | 1971 | 19.2 | 1972 | 19.0 | 1973 | 18.8 | 1974 | 18.7 | 1975 | 18.5 | 1976 | 18.4 | 1977 | 18.5 | 1978 | 18.2 |
| 1968 | 18.5 | 1969 | 18.6 | 1970 | 18.5 | 1971 | 19.1 | 1972 | 18.9 | 1973 | 18.7 | 1974 | 18.6 | 1975 | 18.4 | 1976 | 18.3 | 1977 | 18.4 | 1978 | 18.1 | 1979 | 19.1 |
| 1969 | 18.5 | 1970 | 18.4 | 1971 | 19.0 | 1972 | 18.8 | 1973 | 18.6 | 1974 | 18.5 | 1975 | 18.3 | 1976 | 18.2 | 1977 | 18.3 | 1978 | 17.9 | 1979 | 19.0 | 1980 | 17.1 |
| 1970 | 18.3 | 1971 | 18.9 | 1972 | 18.7 | 1973 | 18.5 | 1974 | 18.4 | 1975 | 18.2 | 1976 | 18.0 | 1977 | 18.1 | 1978 | 17.8 | 1979 | 18.8 | 1980 | 17.0 | 1981 | 16.9 |
| 1971 | 18.7 | 1972 | 18.6 | 1973 | 18.4 | 1974 | 18.2 | 1975 | 18.0 | 1976 | 17.9 | 1977 | 18.0 | 1978 | 17.6 | 1979 | 18.7 | 1980 | 16.9 | 1981 | 16.8 | 1982 | 14.8 |
| 1972 | 18.4 | 1973 | 18.2 | 1974 | 18.0 | 1975 | 17.9 | 1976 | 17.7 | 1977 | 17.8 | 1978 | 17.5 | 1979 | 18.6 | 1980 | 16.7 | 1981 | 16.7 | 1982 | 14.7 | 1983 | 13.9 |
| 1973 | 18.0 | 1974 | 17.8 | 1975 | 17.7 | 1976 | 17.5 | 1977 | 17.6 | 1978 | 17.3 | 1979 | 18.4 | 1980 | 16.6 | 1981 | 16.5 | 1982 | 14.6 | 1983 | 13.7 | 1984 | 14.6 |
| 1974 | 17.6 | 1975 | 17.4 | 1976 | 17.3 | 1977 | 17.4 | 1978 | 17.0 | 1979 | 18.3 | 1980 | 16.5 | 1981 | 16.4 | 1982 | 14.4 | 1983 | 13.6 | 1984 | 14.5 | 1985 | 13.2 |
| 1975 | 17.2 | 1976 | 17.0 | 1977 | 17.1 | 1978 | 16.8 | 1979 | 18.1 | 1980 | 16.3 | 1981 | 16.2 | 1982 | 14.3 | 1983 | 13.5 | 1984 | 14.3 | 1985 | 13.1 | 1986 | 13.0 |
| 1976 | 16.7 | 1977 | 16.8 | 1978 | 16.5 | 1979 | 17.8 | 1980 | 16.1 | 1981 | 16.0 | 1982 | 14.1 | 1983 | 13.3 | 1984 | 14.1 | 1985 | 12.9 | 1986 | 12.9 | 1987 | 12.6 |
| 1977 | 16.5 | 1978 | 16.1 | 1979 | 17.6 | 1980 | 15.9 | 1981 | 15.8 | 1982 | 13.9 | 1983 | 13.1 | 1984 | 13.9 | 1985 | 12.7 | 1986 | 12.7 | 1987 | 12.4 | 1988 | 11.9 |
| 1978 | 15.8 | 1979 | 17.3 | 1980 | 15.6 | 1981 | 15.5 | 1982 | 13.7 | 1983 | 12.9 | 1984 | 13.7 | 1985 | 12.5 | 1986 | 12.5 | 1987 | 12.2 | 1988 | 11.8 | 1989 | 11.7 |
| 1979 | 17.0 | 1980 | 15.3 | 1981 | 15.2 | 1982 | 13.4 | 1983 | 12.7 | 1984 | 13.5 | 1985 | 12.3 | 1986 | 12.3 | 1987 | 12.0 | 1988 | 11.6 | 1989 | 11.5 | 1990 | 11.3 |
| 1980 | 15.0 | 1981 | 14.9 | 1982 | 13.1 | 1983 | 12.4 | 1984 | 13.2 | 1985 | 12.1 | 1986 | 12.0 | 1987 | 11.8 | 1988 | 11.4 | 1989 | 11.3 | 1990 | 11.1 | 1991 | 10.9 |
| 1981 | 14.6 | 1982 | 12.8 | 1983 | 12.2 | 1984 | 12.9 | 1985 | 11.8 | 1986 | 11.8 | 1987 | 11.5 | 1988 | 11.1 | 1989 | 11.1 | 1990 | 10.9 | 1991 | 10.7 | 1992 | 10.7 |
| 1982 | 12.4 | 1983 | 11.8 | 1984 | 12.5 | 1985 | 11.5 | 1986 | 11.5 | 1987 | 11.2 | 1988 | 10.9 | 1989 | 10.9 | 1990 | 10.6 | 1991 | 10.5 | 1992 | 10.5 | 1993 | 10.4 |
| 1983 | 11.5 | 1984 | 12.2 | 1985 | 11.1 | 1986 | 11.1 | 1987 | 10.9 | 1988 | 10.6 | 1989 | 10.6 | 1990 | 10.3 | 1991 | 10.2 | 1992 | 10.2 | 1993 | 10.2 | 1994 | 10.2 |
| 1984 | 11.7 | 1985 | 10.8 | 1986 | 10.8 | 1987 | 10.5 | 1988 | 10.3 | 1989 | 10.3 | 1990 | 10.0 | 1991 | 9.9 | 1992 | 9.9 | 1993 | 9.9 | 1994 | 9.9 | 1995 | 9.9 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

Continued on the next page.

TABLE 7.11B.1 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 CO

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of 2005 | | Calendar Year 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|------|------|------|------|------|------|------|------|------|----------------------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 19.2 | 1974 | 19.1 | 1975 | 19.0 | 1976 | 19.0 | 1979 | 19.8 | 1981 | 18.0 | 1984 | 16.1 | 1986 | 14.7 | 1988 | 13.8 | 1991 | 13.4 | 1994 | 13.4 | 1996 | 13.4 |
| 1974 | 19.0 | 1975 | 18.9 | 1976 | 18.9 | 1977 | 19.0 | 1980 | 17.9 | 1982 | 15.8 | 1985 | 14.6 | 1987 | 14.4 | 1989 | 13.7 | 1992 | 13.3 | 1995 | 13.3 | 1997 | 13.3 |
| 1975 | 18.9 | 1976 | 18.8 | 1977 | 18.9 | 1978 | 18.7 | 1981 | 17.7 | 1983 | 14.8 | 1986 | 14.5 | 1988 | 13.6 | 1990 | 13.4 | 1993 | 13.2 | 1996 | 13.2 | 1998 | 13.2 |
| 1976 | 18.7 | 1977 | 18.8 | 1978 | 18.6 | 1979 | 19.5 | 1982 | 15.6 | 1984 | 15.8 | 1987 | 14.2 | 1989 | 13.5 | 1991 | 13.2 | 1994 | 13.2 | 1997 | 13.2 | 1999 | 13.1 |
| 1977 | 18.7 | 1978 | 18.4 | 1979 | 19.4 | 1980 | 17.5 | 1983 | 14.6 | 1985 | 14.3 | 1988 | 13.4 | 1990 | 13.2 | 1992 | 13.1 | 1995 | 13.1 | 1998 | 13.1 | 2000 | 13.1 |
| 1978 | 18.3 | 1979 | 19.3 | 1980 | 17.4 | 1981 | 17.4 | 1984 | 15.5 | 1986 | 14.2 | 1989 | 13.3 | 1991 | 13.0 | 1993 | 13.0 | 1996 | 13.0 | 1999 | 13.0 | 2001 | 12.9 |
| 1979 | 19.2 | 1980 | 17.3 | 1981 | 17.3 | 1982 | 15.3 | 1985 | 14.1 | 1987 | 13.9 | 1990 | 13.0 | 1992 | 12.9 | 1994 | 12.9 | 1997 | 12.9 | 2000 | 12.9 | 2002 | 12.9 |
| 1980 | 17.2 | 1981 | 17.2 | 1982 | 15.2 | 1983 | 14.3 | 1986 | 14.0 | 1988 | 13.1 | 1991 | 12.8 | 1993 | 12.8 | 1995 | 12.8 | 1998 | 12.8 | 2001 | 12.7 | 2003 | 12.7 |
| 1981 | 17.1 | 1982 | 15.1 | 1983 | 14.2 | 1984 | 15.1 | 1987 | 13.6 | 1989 | 13.0 | 1992 | 12.7 | 1994 | 12.7 | 1996 | 12.7 | 1999 | 12.6 | 2002 | 12.6 | 2004 | 12.6 |
| 1982 | 14.9 | 1983 | 14.1 | 1984 | 15.0 | 1985 | 13.7 | 1988 | 12.9 | 1990 | 12.7 | 1993 | 12.5 | 1995 | 12.5 | 1997 | 12.5 | 2000 | 12.5 | 2003 | 12.5 | 2005 | 12.5 |
| 1983 | 14.0 | 1984 | 14.9 | 1985 | 13.6 | 1986 | 13.6 | 1989 | 12.8 | 1991 | 12.4 | 1994 | 12.4 | 1996 | 12.4 | 1998 | 12.4 | 2001 | 12.4 | 2004 | 12.4 | 2006 | 12.4 |
| 1984 | 14.8 | 1985 | 13.5 | 1986 | 13.5 | 1987 | 13.2 | 1990 | 12.4 | 1992 | 12.3 | 1995 | 12.3 | 1997 | 12.3 | 1999 | 12.3 | 2002 | 12.3 | 2005 | 12.3 | 2007 | 12.3 |
| 1985 | 13.3 | 1986 | 13.3 | 1987 | 13.1 | 1988 | 12.5 | 1991 | 12.1 | 1993 | 12.1 | 1996 | 12.1 | 1998 | 12.1 | 2000 | 12.1 | 2003 | 12.1 | 2006 | 12.1 | 2008 | 12.1 |
| 1986 | 13.2 | 1987 | 12.9 | 1988 | 12.4 | 1989 | 12.4 | 1992 | 12.0 | 1994 | 12.0 | 1997 | 12.0 | 1999 | 12.0 | 2001 | 12.0 | 2004 | 12.0 | 2007 | 12.0 | 2009 | 12.0 |
| 1987 | 12.8 | 1988 | 12.2 | 1989 | 12.2 | 1990 | 12.0 | 1993 | 11.8 | 1995 | 11.8 | 1998 | 11.8 | 2000 | 11.8 | 2002 | 11.8 | 2005 | 11.8 | 2008 | 11.8 | 2010 | 11.8 |
| 1988 | 12.1 | 1989 | 12.1 | 1990 | 11.8 | 1991 | 11.7 | 1994 | 11.7 | 1996 | 11.7 | 1999 | 11.7 | 2001 | 11.7 | 2003 | 11.7 | 2006 | 11.7 | 2009 | 11.7 | 2011 | 11.7 |
| 1989 | 11.9 | 1990 | 11.7 | 1991 | 11.5 | 1992 | 11.5 | 1995 | 11.5 | 1997 | 11.5 | 2000 | 11.5 | 2002 | 11.5 | 2004 | 11.5 | 2007 | 11.5 | 2010 | 11.5 | 2012 | 11.5 |
| 1990 | 11.5 | 1991 | 11.3 | 1992 | 11.3 | 1993 | 11.3 | 1996 | 11.3 | 1998 | 11.3 | 2001 | 11.3 | 2003 | 11.3 | 2005 | 11.3 | 2008 | 11.3 | 2011 | 11.3 | 2013 | 11.3 |
| 1991 | 11.1 | 1992 | 11.1 | 1993 | 11.1 | 1994 | 11.1 | 1997 | 11.1 | 1999 | 11.1 | 2002 | 11.1 | 2004 | 11.1 | 2006 | 11.1 | 2009 | 11.1 | 2012 | 11.1 | 2014 | 11.1 |
| 1992 | 10.9 | 1993 | 10.9 | 1994 | 10.9 | 1995 | 10.9 | 1998 | 10.9 | 2000 | 10.9 | 2003 | 10.9 | 2005 | 10.9 | 2007 | 10.9 | 2010 | 10.9 | 2013 | 10.9 | 2015 | 10.9 |
| 1993 | 10.7 | 1994 | 10.7 | 1995 | 10.7 | 1996 | 10.7 | 1999 | 10.7 | 2001 | 10.6 | 2004 | 10.6 | 2006 | 10.6 | 2008 | 10.6 | 2011 | 10.6 | 2014 | 10.6 | 2016 | 10.6 |
| 1994 | 10.4 | 1995 | 10.4 | 1996 | 10.4 | 1997 | 10.4 | 2000 | 10.4 | 2002 | 10.4 | 2005 | 10.4 | 2007 | 10.4 | 2009 | 10.4 | 2012 | 10.4 | 2015 | 10.4 | 2017 | 10.4 |
| 1995 | 10.2 | 1996 | 10.2 | 1997 | 10.2 | 1998 | 10.2 | 2001 | 10.1 | 2003 | 10.1 | 2006 | 10.1 | 2008 | 10.1 | 2010 | 10.1 | 2013 | 10.1 | 2016 | 10.1 | 2018 | 10.1 |
| 1996 | 9.9 | 1997 | 9.9 | 1998 | 9.9 | 1999 | 9.9 | 2002 | 9.9 | 2004 | 9.9 | 2007 | 9.9 | 2009 | 9.9 | 2011 | 9.9 | 2014 | 9.9 | 2017 | 9.9 | 2019 | 9.9 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

TABLE 7.11C.1
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 NOx

DATE : JUNE 30, 1995

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 33.5 | 1962 | 33.2 | 1963 | 32.9 | 1964 | 32.7 | 1965 | 32.4 | 1966 | 32.2 | 1967 | 33.3 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.6 |
| 1962 | 33.3 | 1963 | 33.0 | 1964 | 32.7 | 1965 | 32.5 | 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.5 | 1973 | 34.4 |
| 1963 | 33.0 | 1964 | 32.8 | 1965 | 32.5 | 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.5 | 1973 | 34.3 | 1974 | 34.2 |
| 1964 | 32.8 | 1965 | 32.5 | 1966 | 32.3 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.6 | 1972 | 34.4 | 1973 | 34.3 | 1974 | 34.1 | 1975 | 34.0 |
| 1965 | 32.5 | 1966 | 32.3 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.1 | 1971 | 34.6 | 1972 | 34.4 | 1973 | 34.2 | 1974 | 34.0 | 1975 | 33.9 | 1976 | 33.8 |
| 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.6 | 1970 | 34.1 | 1971 | 34.5 | 1972 | 34.3 | 1973 | 34.1 | 1974 | 33.9 | 1975 | 33.8 | 1976 | 33.6 | 1977 | 34.1 |
| 1967 | 33.3 | 1968 | 33.1 | 1969 | 33.6 | 1970 | 34.0 | 1971 | 34.5 | 1972 | 34.3 | 1973 | 34.0 | 1974 | 33.8 | 1975 | 33.7 | 1976 | 33.5 | 1977 | 33.9 | 1978 | 33.3 |
| 1968 | 33.0 | 1969 | 33.5 | 1970 | 34.0 | 1971 | 34.4 | 1972 | 34.2 | 1973 | 34.0 | 1974 | 33.7 | 1975 | 33.6 | 1976 | 33.4 | 1977 | 33.8 | 1978 | 33.2 | 1979 | 24.0 |
| 1969 | 33.4 | 1970 | 33.8 | 1971 | 34.3 | 1972 | 34.1 | 1973 | 33.8 | 1974 | 33.6 | 1975 | 33.4 | 1976 | 33.3 | 1977 | 33.6 | 1978 | 33.0 | 1979 | 24.0 | 1980 | 21.6 |
| 1970 | 33.7 | 1971 | 34.1 | 1972 | 33.9 | 1973 | 33.7 | 1974 | 33.5 | 1975 | 33.3 | 1976 | 33.1 | 1977 | 33.5 | 1978 | 32.9 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 |
| 1971 | 34.0 | 1972 | 33.8 | 1973 | 33.5 | 1974 | 33.3 | 1975 | 33.1 | 1976 | 32.9 | 1977 | 33.3 | 1978 | 32.7 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 |
| 1972 | 33.5 | 1973 | 33.3 | 1974 | 33.1 | 1975 | 32.9 | 1976 | 32.7 | 1977 | 33.1 | 1978 | 32.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 |
| 1973 | 33.1 | 1974 | 32.9 | 1975 | 32.7 | 1976 | 32.5 | 1977 | 32.9 | 1978 | 32.2 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 |
| 1974 | 32.6 | 1975 | 32.4 | 1976 | 32.2 | 1977 | 32.6 | 1978 | 32.0 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 |
| 1975 | 32.1 | 1976 | 31.9 | 1977 | 32.3 | 1978 | 31.7 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 |
| 1976 | 31.6 | 1977 | 32.0 | 1978 | 31.3 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 |
| 1977 | 31.5 | 1978 | 30.9 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 |
| 1978 | 30.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 |
| 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 |
| 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 |
| 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 |
| 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 |
| 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 |
| 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:
 19.6 MPH, TEMP=75 Degrees F.
 Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

Continued on the next page.

TABLE 7.11C.1 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR LOW ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 NOx

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of 2005 | | Calendar Year 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|------|------|------|------|------|------|------|------|------|----------------------|------|-----------------------|------|------|------|------|------|------|-----|------|-----|------|-----|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 34.5 | 1974 | 34.4 | 1975 | 34.3 | 1976 | 34.2 | 1979 | 24.0 | 1981 | 21.6 | 1984 | 19.2 | 1986 | 17.7 | 1988 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 |
| 1974 | 34.3 | 1975 | 34.2 | 1976 | 34.1 | 1977 | 34.6 | 1980 | 21.6 | 1982 | 19.0 | 1985 | 17.7 | 1987 | 17.3 | 1989 | 16.9 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 |
| 1975 | 34.1 | 1976 | 34.0 | 1977 | 34.4 | 1978 | 33.9 | 1981 | 21.6 | 1983 | 18.2 | 1986 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 |
| 1976 | 33.9 | 1977 | 34.3 | 1978 | 33.8 | 1979 | 24.0 | 1982 | 19.0 | 1984 | 19.2 | 1987 | 17.3 | 1989 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 |
| 1977 | 34.2 | 1978 | 33.6 | 1979 | 24.0 | 1980 | 21.6 | 1983 | 18.2 | 1985 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1992 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 |
| 1978 | 33.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1984 | 19.2 | 1986 | 17.7 | 1989 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 |
| 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1985 | 17.7 | 1987 | 17.3 | 1990 | 9.9 | 1992 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 |
| 1980 | 21.6 | 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1986 | 17.7 | 1988 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 |
| 1981 | 21.6 | 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1987 | 17.3 | 1989 | 16.9 | 1992 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 |
| 1982 | 19.0 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2003 | 6.5 | 2005 | 6.5 |
| 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1989 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2006 | 6.5 |
| 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1990 | 9.9 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2007 | 6.5 |
| 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2008 | 6.5 |
| 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1992 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2009 | 6.5 |
| 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2008 | 6.5 | 2010 | 6.5 |
| 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2009 | 6.5 | 2011 | 6.5 |
| 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2010 | 6.5 | 2012 | 6.5 |
| 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2005 | 6.5 | 2008 | 6.5 | 2011 | 6.5 | 2013 | 6.5 |
| 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2006 | 6.5 | 2009 | 6.5 | 2012 | 6.5 | 2014 | 6.5 |
| 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2003 | 6.5 | 2005 | 6.5 | 2007 | 6.5 | 2010 | 6.5 | 2013 | 6.5 | 2015 | 6.5 |
| 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2006 | 6.5 | 2008 | 6.5 | 2011 | 6.5 | 2014 | 6.5 | 2016 | 6.5 |
| 1994 | 8.2 | 1995 | 8.2 | 1996 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2007 | 6.5 | 2009 | 6.5 | 2012 | 6.5 | 2015 | 6.5 | 2017 | 6.5 |
| 1995 | 8.2 | 1996 | 8.2 | 1997 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2008 | 6.5 | 2010 | 6.5 | 2013 | 6.5 | 2016 | 6.5 | 2018 | 6.5 |
| 1996 | 8.2 | 1997 | 8.2 | 1998 | 6.5 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2009 | 6.5 | 2011 | 6.5 | 2014 | 6.5 | 2017 | 6.5 | 2019 | 6.5 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 1.4.7

TABLE 7.11A.2
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 TOTAL NONMETHANE HC

DATE : JUNE 30, 1995

January 1 of Calendar Year

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 11.6 | 1962 | 11.5 | 1963 | 11.4 | 1964 | 11.3 | 1965 | 11.2 | 1966 | 11.1 | 1967 | 11.3 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.7 | 1972 | 11.6 |
| 1962 | 11.5 | 1963 | 11.4 | 1964 | 11.3 | 1965 | 11.2 | 1966 | 11.1 | 1967 | 11.4 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.7 | 1972 | 11.6 | 1973 | 11.6 |
| 1963 | 11.4 | 1964 | 11.3 | 1965 | 11.2 | 1966 | 11.1 | 1967 | 11.4 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.7 | 1972 | 11.6 | 1973 | 11.6 | 1974 | 11.5 |
| 1964 | 11.3 | 1965 | 11.2 | 1966 | 11.1 | 1967 | 11.4 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.7 | 1972 | 11.6 | 1973 | 11.5 | 1974 | 11.5 | 1975 | 11.5 |
| 1965 | 11.2 | 1966 | 11.1 | 1967 | 11.4 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.6 | 1972 | 11.6 | 1973 | 11.5 | 1974 | 11.5 | 1975 | 11.4 | 1976 | 11.4 |
| 1966 | 11.1 | 1967 | 11.4 | 1968 | 11.3 | 1969 | 11.5 | 1970 | 11.5 | 1971 | 11.6 | 1972 | 11.6 | 1973 | 11.5 | 1974 | 11.4 | 1975 | 11.4 | 1976 | 11.3 | 1977 | 11.5 |
| 1967 | 11.3 | 1968 | 11.3 | 1969 | 11.4 | 1970 | 11.4 | 1971 | 11.6 | 1972 | 11.5 | 1973 | 11.5 | 1974 | 11.4 | 1975 | 11.4 | 1976 | 11.3 | 1977 | 11.5 | 1978 | 11.3 |
| 1968 | 11.2 | 1969 | 11.4 | 1970 | 11.4 | 1971 | 11.6 | 1972 | 11.5 | 1973 | 11.4 | 1974 | 11.4 | 1975 | 11.3 | 1976 | 11.3 | 1977 | 11.4 | 1978 | 11.2 | 1979 | 7.9 |
| 1969 | 11.4 | 1970 | 11.4 | 1971 | 11.5 | 1972 | 11.5 | 1973 | 11.4 | 1974 | 11.3 | 1975 | 11.3 | 1976 | 11.2 | 1977 | 11.4 | 1978 | 11.2 | 1979 | 7.9 | 1980 | 7.1 |
| 1970 | 11.3 | 1971 | 11.5 | 1972 | 11.4 | 1973 | 11.4 | 1974 | 11.3 | 1975 | 11.2 | 1976 | 11.2 | 1977 | 11.3 | 1978 | 11.1 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 |
| 1971 | 11.4 | 1972 | 11.4 | 1973 | 11.3 | 1974 | 11.2 | 1975 | 11.2 | 1976 | 11.1 | 1977 | 11.3 | 1978 | 11.0 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 |
| 1972 | 11.3 | 1973 | 11.2 | 1974 | 11.2 | 1975 | 11.1 | 1976 | 11.1 | 1977 | 11.2 | 1978 | 11.0 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 |
| 1973 | 11.2 | 1974 | 11.1 | 1975 | 11.0 | 1976 | 11.0 | 1977 | 11.1 | 1978 | 10.9 | 1979 | 10.9 | 1980 | 7.9 | 1981 | 7.1 | 1982 | 7.1 | 1983 | 6.2 | 1984 | 6.3 |
| 1974 | 11.0 | 1975 | 11.0 | 1976 | 10.9 | 1977 | 11.0 | 1978 | 10.8 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 |
| 1975 | 10.9 | 1976 | 10.8 | 1977 | 10.9 | 1978 | 10.7 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 |
| 1976 | 10.7 | 1977 | 10.8 | 1978 | 10.6 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 |
| 1977 | 10.7 | 1978 | 10.5 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 |
| 1978 | 10.3 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 |
| 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 |
| 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 |
| 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 |
| 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 | 1993 | 4.7 |
| 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 | 1993 | 4.7 | 1994 | 4.7 |
| 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 | 1993 | 4.7 | 1994 | 4.7 | 1995 | 4.7 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7

Continued on the next page.

TABLE 7.11A.2 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 TOTAL NONMETHANE HC

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of Calendar Year 2005 | | 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|------|------|------|------|------|------|------|------|-----|------------------------------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 11.6 | 1974 | 11.6 | 1975 | 11.5 | 1976 | 11.5 | 1979 | 7.9 | 1981 | 7.1 | 1984 | 6.3 | 1986 | 5.1 | 1988 | 4.9 | 1991 | 4.7 | 1994 | 4.7 | 1996 | 4.7 |
| 1974 | 11.5 | 1975 | 11.5 | 1976 | 11.5 | 1977 | 11.7 | 1980 | 7.1 | 1982 | 6.2 | 1985 | 5.8 | 1987 | 4.9 | 1989 | 4.9 | 1992 | 4.7 | 1995 | 4.7 | 1997 | 4.7 |
| 1975 | 11.5 | 1976 | 11.5 | 1977 | 11.6 | 1978 | 11.4 | 1981 | 7.1 | 1983 | 5.9 | 1986 | 5.1 | 1988 | 4.9 | 1990 | 4.7 | 1993 | 4.7 | 1996 | 4.7 | 1998 | 4.7 |
| 1976 | 11.4 | 1977 | 11.6 | 1978 | 11.4 | 1979 | 7.9 | 1982 | 6.2 | 1984 | 6.3 | 1987 | 4.9 | 1989 | 4.9 | 1991 | 4.7 | 1994 | 4.7 | 1997 | 4.7 | 1999 | 4.7 |
| 1977 | 11.5 | 1978 | 11.3 | 1979 | 7.9 | 1980 | 7.1 | 1983 | 5.9 | 1985 | 5.8 | 1988 | 4.9 | 1990 | 4.7 | 1992 | 4.7 | 1995 | 4.7 | 1998 | 4.7 | 2000 | 4.7 |
| 1978 | 11.3 | 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1984 | 6.3 | 1986 | 5.1 | 1989 | 4.9 | 1991 | 4.7 | 1993 | 4.7 | 1996 | 4.7 | 1999 | 4.7 | 2001 | 4.7 |
| 1979 | 7.9 | 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1985 | 5.8 | 1987 | 4.9 | 1990 | 4.7 | 1992 | 4.7 | 1994 | 4.7 | 1997 | 4.7 | 2000 | 4.7 | 2002 | 4.7 |
| 1980 | 7.1 | 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1986 | 5.1 | 1988 | 4.9 | 1991 | 4.7 | 1993 | 4.7 | 1995 | 4.7 | 1998 | 4.7 | 2001 | 4.7 | 2003 | 4.7 |
| 1981 | 7.1 | 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1987 | 4.9 | 1989 | 4.9 | 1992 | 4.7 | 1994 | 4.7 | 1996 | 4.7 | 1999 | 4.7 | 2002 | 4.7 | 2004 | 4.7 |
| 1982 | 6.2 | 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1988 | 4.9 | 1990 | 4.7 | 1993 | 4.7 | 1995 | 4.7 | 1997 | 4.7 | 2000 | 4.7 | 2003 | 4.7 | 2005 | 4.7 |
| 1983 | 5.9 | 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1989 | 4.9 | 1991 | 4.7 | 1994 | 4.7 | 1996 | 4.7 | 1998 | 4.7 | 2001 | 4.7 | 2004 | 4.7 | 2006 | 4.7 |
| 1984 | 6.3 | 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1990 | 4.7 | 1992 | 4.7 | 1995 | 4.7 | 1997 | 4.7 | 1999 | 4.7 | 2002 | 4.7 | 2005 | 4.7 | 2007 | 4.7 |
| 1985 | 5.8 | 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1991 | 4.7 | 1993 | 4.7 | 1996 | 4.7 | 1998 | 4.7 | 2000 | 4.7 | 2003 | 4.7 | 2006 | 4.7 | 2008 | 4.7 |
| 1986 | 5.1 | 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1992 | 4.7 | 1994 | 4.7 | 1997 | 4.7 | 1999 | 4.7 | 2001 | 4.7 | 2004 | 4.7 | 2007 | 4.7 | 2009 | 4.7 |
| 1987 | 4.9 | 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1993 | 4.7 | 1995 | 4.7 | 1998 | 4.7 | 2000 | 4.7 | 2002 | 4.7 | 2005 | 4.7 | 2008 | 4.7 | 2010 | 4.7 |
| 1988 | 4.9 | 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1994 | 4.7 | 1996 | 4.7 | 1999 | 4.7 | 2001 | 4.7 | 2003 | 4.7 | 2006 | 4.7 | 2009 | 4.7 | 2011 | 4.7 |
| 1989 | 4.9 | 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 | 1995 | 4.7 | 1997 | 4.7 | 2000 | 4.7 | 2002 | 4.7 | 2004 | 4.7 | 2007 | 4.7 | 2010 | 4.7 | 2012 | 4.7 |
| 1990 | 4.7 | 1991 | 4.7 | 1992 | 4.7 | 1993 | 4.7 | 1996 | 4.7 | 1998 | 4.7 | 2001 | 4.7 | 2003 | 4.7 | 2005 | 4.7 | 2008 | 4.7 | 2011 | 4.7 | 2013 | 4.7 |
| 1991 | 4.7 | 1992 | 4.7 | 1993 | 4.7 | 1994 | 4.7 | 1997 | 4.7 | 1999 | 4.7 | 2002 | 4.7 | 2004 | 4.7 | 2006 | 4.7 | 2009 | 4.7 | 2012 | 4.7 | 2014 | 4.7 |
| 1992 | 4.7 | 1993 | 4.7 | 1994 | 4.7 | 1995 | 4.7 | 1998 | 4.7 | 2000 | 4.7 | 2003 | 4.7 | 2005 | 4.7 | 2007 | 4.7 | 2010 | 4.7 | 2013 | 4.7 | 2015 | 4.7 |
| 1993 | 4.7 | 1994 | 4.7 | 1995 | 4.7 | 1996 | 4.7 | 1999 | 4.7 | 2001 | 4.7 | 2004 | 4.7 | 2006 | 4.7 | 2008 | 4.7 | 2011 | 4.7 | 2014 | 4.7 | 2016 | 4.7 |
| 1994 | 4.7 | 1995 | 4.7 | 1996 | 4.7 | 1997 | 4.7 | 2000 | 4.7 | 2002 | 4.7 | 2005 | 4.7 | 2007 | 4.7 | 2009 | 4.7 | 2012 | 4.7 | 2015 | 4.7 | 2017 | 4.7 |
| 1995 | 4.7 | 1996 | 4.7 | 1997 | 4.7 | 1998 | 4.7 | 2001 | 4.7 | 2003 | 4.7 | 2006 | 4.7 | 2008 | 4.7 | 2010 | 4.7 | 2013 | 4.7 | 2016 | 4.7 | 2018 | 4.7 |
| 1996 | 4.7 | 1997 | 4.7 | 1998 | 4.7 | 1999 | 4.7 | 2002 | 4.7 | 2004 | 4.7 | 2007 | 4.7 | 2009 | 4.7 | 2011 | 4.7 | 2014 | 4.7 | 2017 | 4.7 | 2019 | 4.7 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7

TABLE 7.11B.2
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 CO

DATE : JUNE 30, 1995

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 27.0 | 1962 | 26.8 | 1963 | 26.6 | 1964 | 26.3 | 1965 | 26.1 | 1966 | 25.9 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.1 | 1972 | 28.0 |
| 1962 | 26.8 | 1963 | 26.6 | 1964 | 26.4 | 1965 | 26.2 | 1966 | 26.0 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.1 | 1972 | 27.9 | 1973 | 27.8 |
| 1963 | 26.6 | 1964 | 26.4 | 1965 | 26.2 | 1966 | 26.0 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.0 | 1972 | 27.9 | 1973 | 27.7 | 1974 | 27.6 |
| 1964 | 26.4 | 1965 | 26.2 | 1966 | 26.0 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.0 | 1972 | 27.8 | 1973 | 27.9 | 1974 | 27.6 | 1975 | 27.5 |
| 1965 | 26.2 | 1966 | 26.0 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.0 | 1972 | 27.8 | 1973 | 27.7 | 1974 | 27.5 | 1975 | 27.4 | 1976 | 27.3 |
| 1966 | 26.0 | 1967 | 27.0 | 1968 | 26.8 | 1969 | 27.2 | 1970 | 27.2 | 1971 | 28.0 | 1972 | 27.8 | 1973 | 27.6 | 1974 | 27.5 | 1975 | 27.3 | 1976 | 27.2 | 1977 | 27.5 |
| 1967 | 26.9 | 1968 | 26.7 | 1969 | 27.1 | 1970 | 27.1 | 1971 | 27.9 | 1972 | 27.7 | 1973 | 27.6 | 1974 | 27.4 | 1975 | 27.2 | 1976 | 27.1 | 1977 | 27.4 | 1978 | 27.0 |
| 1968 | 26.7 | 1969 | 27.1 | 1970 | 27.0 | 1971 | 27.9 | 1972 | 27.7 | 1973 | 27.5 | 1974 | 27.3 | 1975 | 27.1 | 1976 | 27.0 | 1977 | 27.3 | 1978 | 26.8 | 1979 | 29.8 |
| 1969 | 27.0 | 1970 | 27.0 | 1971 | 27.8 | 1972 | 27.6 | 1973 | 27.4 | 1974 | 27.2 | 1975 | 27.0 | 1976 | 26.9 | 1977 | 27.2 | 1978 | 26.7 | 1979 | 29.7 | 1980 | 26.8 |
| 1970 | 26.8 | 1971 | 27.6 | 1972 | 27.4 | 1973 | 27.3 | 1974 | 27.1 | 1975 | 26.9 | 1976 | 26.8 | 1977 | 27.0 | 1978 | 26.5 | 1979 | 29.6 | 1980 | 26.7 | 1981 | 26.6 |
| 1971 | 27.5 | 1972 | 27.3 | 1973 | 27.1 | 1974 | 26.9 | 1975 | 26.8 | 1976 | 26.6 | 1977 | 26.9 | 1978 | 26.4 | 1979 | 29.5 | 1980 | 26.6 | 1981 | 26.5 | 1982 | 22.9 |
| 1972 | 27.1 | 1973 | 27.0 | 1974 | 26.8 | 1975 | 26.6 | 1976 | 26.5 | 1977 | 26.7 | 1978 | 26.2 | 1979 | 29.3 | 1980 | 26.4 | 1981 | 26.4 | 1982 | 22.8 | 1983 | 22.0 |
| 1973 | 26.7 | 1974 | 26.6 | 1975 | 26.4 | 1976 | 26.3 | 1977 | 26.5 | 1978 | 26.0 | 1979 | 29.2 | 1980 | 26.3 | 1981 | 26.2 | 1982 | 22.7 | 1983 | 21.9 | 1984 | 23.2 |
| 1974 | 26.3 | 1975 | 26.2 | 1976 | 26.0 | 1977 | 26.3 | 1978 | 25.8 | 1979 | 29.0 | 1980 | 26.2 | 1981 | 26.1 | 1982 | 22.6 | 1983 | 21.8 | 1984 | 23.1 | 1985 | 21.1 |
| 1975 | 25.9 | 1976 | 25.8 | 1977 | 26.0 | 1978 | 25.5 | 1979 | 28.8 | 1980 | 26.0 | 1981 | 25.9 | 1982 | 22.4 | 1983 | 21.6 | 1984 | 22.9 | 1985 | 21.0 | 1986 | 21.0 |
| 1976 | 25.4 | 1977 | 25.7 | 1978 | 25.2 | 1979 | 28.6 | 1980 | 25.8 | 1981 | 25.7 | 1982 | 22.3 | 1983 | 21.4 | 1984 | 22.7 | 1985 | 20.8 | 1986 | 20.8 | 1987 | 20.4 |
| 1977 | 25.4 | 1978 | 24.9 | 1979 | 28.3 | 1980 | 25.6 | 1981 | 25.5 | 1982 | 22.1 | 1983 | 21.3 | 1984 | 22.5 | 1985 | 20.6 | 1986 | 20.6 | 1987 | 20.2 | 1988 | 19.5 |
| 1978 | 24.5 | 1979 | 28.1 | 1980 | 25.3 | 1981 | 25.2 | 1982 | 21.9 | 1983 | 21.1 | 1984 | 22.3 | 1985 | 20.4 | 1986 | 20.4 | 1987 | 20.0 | 1988 | 19.3 | 1989 | 19.3 |
| 1979 | 27.7 | 1980 | 25.0 | 1981 | 24.9 | 1982 | 21.6 | 1983 | 20.8 | 1984 | 22.1 | 1985 | 20.2 | 1986 | 20.2 | 1987 | 19.8 | 1988 | 19.1 | 1989 | 19.1 | 1990 | 18.7 |
| 1980 | 24.7 | 1981 | 24.6 | 1982 | 21.4 | 1983 | 20.6 | 1984 | 21.8 | 1985 | 20.0 | 1986 | 20.0 | 1987 | 19.5 | 1988 | 18.9 | 1989 | 18.9 | 1990 | 18.5 | 1991 | 18.2 |
| 1981 | 24.3 | 1982 | 21.1 | 1983 | 20.3 | 1984 | 21.5 | 1985 | 19.7 | 1986 | 19.7 | 1987 | 19.3 | 1988 | 18.7 | 1989 | 18.7 | 1990 | 18.3 | 1991 | 18.0 | 1992 | 18.0 |
| 1982 | 20.8 | 1983 | 20.0 | 1984 | 21.2 | 1985 | 19.4 | 1986 | 19.4 | 1987 | 19.0 | 1988 | 18.4 | 1989 | 18.4 | 1990 | 18.0 | 1991 | 17.8 | 1992 | 17.8 | 1993 | 17.7 |
| 1983 | 19.6 | 1984 | 20.8 | 1985 | 19.1 | 1986 | 19.1 | 1987 | 18.7 | 1988 | 18.2 | 1989 | 18.2 | 1990 | 17.7 | 1991 | 17.5 | 1992 | 17.5 | 1993 | 17.5 | 1994 | 17.5 |
| 1984 | 20.4 | 1985 | 18.7 | 1986 | 18.7 | 1987 | 18.3 | 1988 | 17.9 | 1989 | 17.8 | 1990 | 17.4 | 1991 | 17.2 | 1992 | 17.2 | 1993 | 17.2 | 1994 | 17.2 | 1995 | 17.2 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7

Continued on the next page.

TABLE 7.11B.2 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 CO

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of 2005 | | Calendar Year 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|------|------|------|------|------|------|------|------|------|----------------------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 27.9 | 1974 | 27.8 | 1975 | 27.8 | 1976 | 27.7 | 1979 | 30.6 | 1981 | 27.7 | 1984 | 24.7 | 1986 | 22.6 | 1988 | 21.3 | 1991 | 20.7 | 1994 | 20.7 | 1996 | 20.7 |
| 1974 | 27.8 | 1975 | 27.7 | 1976 | 27.6 | 1977 | 28.0 | 1980 | 27.6 | 1982 | 23.8 | 1985 | 22.5 | 1987 | 22.1 | 1989 | 21.3 | 1992 | 20.6 | 1995 | 20.6 | 1997 | 20.6 |
| 1975 | 27.6 | 1976 | 27.5 | 1977 | 27.9 | 1978 | 27.4 | 1981 | 27.4 | 1983 | 23.0 | 1986 | 22.4 | 1988 | 21.2 | 1990 | 20.8 | 1993 | 20.5 | 1996 | 20.5 | 1998 | 20.5 |
| 1976 | 27.4 | 1977 | 27.8 | 1978 | 27.3 | 1979 | 30.2 | 1982 | 23.6 | 1984 | 24.4 | 1987 | 22.0 | 1989 | 21.1 | 1991 | 20.5 | 1994 | 20.5 | 1997 | 20.5 | 1999 | 20.4 |
| 1977 | 27.6 | 1978 | 27.2 | 1979 | 30.1 | 1980 | 27.2 | 1983 | 22.8 | 1985 | 22.2 | 1988 | 21.0 | 1990 | 20.6 | 1992 | 20.4 | 1995 | 20.4 | 1998 | 20.3 | 2000 | 20.3 |
| 1978 | 27.1 | 1979 | 30.0 | 1980 | 27.1 | 1981 | 27.1 | 1984 | 24.2 | 1986 | 22.1 | 1989 | 20.9 | 1991 | 20.3 | 1993 | 20.3 | 1996 | 20.3 | 1999 | 20.2 | 2001 | 20.2 |
| 1979 | 29.9 | 1980 | 27.0 | 1981 | 27.0 | 1982 | 23.3 | 1985 | 22.0 | 1987 | 21.6 | 1990 | 20.4 | 1992 | 20.2 | 1994 | 20.2 | 1997 | 20.2 | 2000 | 20.2 | 2002 | 20.1 |
| 1980 | 26.9 | 1981 | 26.9 | 1982 | 23.2 | 1983 | 22.4 | 1986 | 21.9 | 1988 | 20.7 | 1991 | 20.1 | 1993 | 20.1 | 1995 | 20.1 | 1998 | 20.0 | 2001 | 20.0 | 2003 | 20.0 |
| 1981 | 26.8 | 1982 | 23.1 | 1983 | 22.3 | 1984 | 23.8 | 1987 | 21.4 | 1989 | 20.6 | 1992 | 20.0 | 1994 | 20.0 | 1996 | 20.0 | 1999 | 19.9 | 2002 | 19.9 | 2004 | 19.9 |
| 1982 | 23.0 | 1983 | 22.2 | 1984 | 23.6 | 1985 | 21.6 | 1988 | 20.5 | 1990 | 20.1 | 1993 | 19.8 | 1995 | 19.8 | 1997 | 19.8 | 2000 | 19.8 | 2003 | 19.8 | 2005 | 19.8 |
| 1983 | 22.1 | 1984 | 23.5 | 1985 | 21.5 | 1986 | 21.5 | 1989 | 20.4 | 1991 | 19.7 | 1994 | 19.7 | 1996 | 19.7 | 1998 | 19.7 | 2001 | 19.7 | 2004 | 19.7 | 2006 | 19.7 |
| 1984 | 23.4 | 1985 | 21.4 | 1986 | 21.4 | 1987 | 21.0 | 1990 | 19.8 | 1992 | 19.6 | 1995 | 19.6 | 1997 | 19.6 | 1999 | 19.6 | 2002 | 19.6 | 2005 | 19.6 | 2007 | 19.6 |
| 1985 | 21.3 | 1986 | 21.3 | 1987 | 20.8 | 1988 | 20.1 | 1991 | 19.4 | 1993 | 19.4 | 1996 | 19.4 | 1998 | 19.4 | 2000 | 19.4 | 2003 | 19.4 | 2006 | 19.4 | 2008 | 19.4 |
| 1986 | 21.1 | 1987 | 20.7 | 1988 | 20.0 | 1989 | 19.9 | 1992 | 19.3 | 1994 | 19.3 | 1997 | 19.3 | 1999 | 19.3 | 2001 | 19.3 | 2004 | 19.3 | 2007 | 19.3 | 2009 | 19.3 |
| 1987 | 20.5 | 1988 | 19.8 | 1989 | 19.8 | 1990 | 19.4 | 1993 | 19.1 | 1995 | 19.1 | 1998 | 19.1 | 2000 | 19.1 | 2002 | 19.1 | 2005 | 19.1 | 2008 | 19.1 | 2010 | 19.1 |
| 1988 | 19.7 | 1989 | 19.6 | 1990 | 19.2 | 1991 | 19.0 | 1994 | 19.0 | 1996 | 19.0 | 1999 | 19.0 | 2001 | 18.9 | 2003 | 18.9 | 2006 | 18.9 | 2009 | 18.9 | 2011 | 18.9 |
| 1989 | 19.5 | 1990 | 19.1 | 1991 | 18.8 | 1992 | 18.8 | 1995 | 18.8 | 1997 | 18.8 | 2000 | 18.8 | 2002 | 18.8 | 2004 | 18.8 | 2007 | 18.8 | 2010 | 18.8 | 2012 | 18.8 |
| 1990 | 18.9 | 1991 | 18.6 | 1992 | 18.6 | 1993 | 18.6 | 1996 | 18.6 | 1998 | 18.6 | 2001 | 18.6 | 2003 | 18.6 | 2005 | 18.6 | 2008 | 18.6 | 2011 | 18.6 | 2013 | 18.6 |
| 1991 | 18.4 | 1992 | 18.4 | 1993 | 18.4 | 1994 | 18.4 | 1997 | 18.4 | 1999 | 18.4 | 2002 | 18.4 | 2004 | 18.4 | 2006 | 18.4 | 2009 | 18.4 | 2012 | 18.4 | 2014 | 18.4 |
| 1992 | 18.2 | 1993 | 18.2 | 1994 | 18.2 | 1995 | 18.2 | 1998 | 18.2 | 2000 | 18.2 | 2003 | 18.2 | 2005 | 18.2 | 2007 | 18.2 | 2010 | 18.2 | 2013 | 18.2 | 2015 | 18.2 |
| 1993 | 18.0 | 1994 | 18.0 | 1995 | 18.0 | 1996 | 18.0 | 1999 | 17.9 | 2001 | 17.9 | 2004 | 17.9 | 2006 | 17.9 | 2008 | 17.9 | 2011 | 17.9 | 2014 | 17.9 | 2016 | 17.9 |
| 1994 | 17.7 | 1995 | 17.7 | 1996 | 17.7 | 1997 | 17.7 | 2000 | 17.7 | 2002 | 17.7 | 2005 | 17.7 | 2007 | 17.7 | 2009 | 17.7 | 2012 | 17.7 | 2015 | 17.7 | 2017 | 17.7 |
| 1995 | 17.5 | 1996 | 17.5 | 1997 | 17.5 | 1998 | 17.4 | 2001 | 17.4 | 2003 | 17.4 | 2006 | 17.4 | 2008 | 17.4 | 2010 | 17.4 | 2013 | 17.4 | 2016 | 17.4 | 2018 | 17.4 |
| 1996 | 17.2 | 1997 | 17.2 | 1998 | 17.2 | 1999 | 17.2 | 2002 | 17.2 | 2004 | 17.2 | 2007 | 17.2 | 2009 | 17.2 | 2011 | 17.2 | 2014 | 17.2 | 2017 | 17.2 | 2019 | 17.2 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7

TABLE 7.11C.2
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 NOx

DATE : JUNE 30, 1995

| 1985 | | 1986 | | 1987 | | 1988 | | 1989 | | 1990 | | 1991 | | 1992 | | 1993 | | 1994 | | 1995 | | 1996 | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1961 | 33.5 | 1962 | 33.2 | 1963 | 32.9 | 1964 | 32.7 | 1965 | 32.4 | 1966 | 32.2 | 1967 | 33.3 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.6 |
| 1962 | 33.3 | 1963 | 33.0 | 1964 | 32.7 | 1965 | 32.5 | 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.5 | 1973 | 34.4 |
| 1963 | 33.0 | 1964 | 32.8 | 1965 | 32.5 | 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.7 | 1972 | 34.5 | 1973 | 34.3 | 1974 | 34.2 |
| 1964 | 32.8 | 1965 | 32.5 | 1966 | 32.3 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.2 | 1971 | 34.6 | 1972 | 34.4 | 1973 | 34.3 | 1974 | 34.1 | 1975 | 34.0 |
| 1965 | 32.5 | 1966 | 32.3 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.7 | 1970 | 34.1 | 1971 | 34.6 | 1972 | 34.4 | 1973 | 34.2 | 1974 | 34.0 | 1975 | 33.9 | 1976 | 33.8 |
| 1966 | 32.2 | 1967 | 33.4 | 1968 | 33.1 | 1969 | 33.6 | 1970 | 34.1 | 1971 | 34.5 | 1972 | 34.3 | 1973 | 34.1 | 1974 | 33.9 | 1975 | 33.8 | 1976 | 33.6 | 1977 | 34.1 |
| 1967 | 33.3 | 1968 | 33.1 | 1969 | 33.6 | 1970 | 34.0 | 1971 | 34.5 | 1972 | 34.3 | 1973 | 34.0 | 1974 | 33.8 | 1975 | 33.7 | 1976 | 33.5 | 1977 | 33.9 | 1978 | 33.3 |
| 1968 | 33.0 | 1969 | 33.5 | 1970 | 34.0 | 1971 | 34.4 | 1972 | 34.2 | 1973 | 34.0 | 1974 | 33.7 | 1975 | 33.6 | 1976 | 33.4 | 1977 | 33.8 | 1978 | 33.2 | 1979 | 24.0 |
| 1969 | 33.4 | 1970 | 33.8 | 1971 | 34.3 | 1972 | 34.1 | 1973 | 33.8 | 1974 | 33.6 | 1975 | 33.4 | 1976 | 33.3 | 1977 | 33.6 | 1978 | 33.0 | 1979 | 24.0 | 1980 | 21.6 |
| 1970 | 33.7 | 1971 | 34.1 | 1972 | 33.9 | 1973 | 33.7 | 1974 | 33.5 | 1975 | 33.3 | 1976 | 33.1 | 1977 | 33.5 | 1978 | 32.9 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 |
| 1971 | 34.0 | 1972 | 33.8 | 1973 | 33.5 | 1974 | 33.3 | 1975 | 33.1 | 1976 | 32.9 | 1977 | 33.3 | 1978 | 32.7 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 |
| 1972 | 33.5 | 1973 | 33.3 | 1974 | 33.1 | 1975 | 32.9 | 1976 | 32.7 | 1977 | 33.1 | 1978 | 32.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 |
| 1973 | 33.1 | 1974 | 32.9 | 1975 | 32.7 | 1976 | 32.5 | 1977 | 32.9 | 1978 | 32.2 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 |
| 1974 | 32.6 | 1975 | 32.4 | 1976 | 32.2 | 1977 | 32.6 | 1978 | 32.0 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 |
| 1975 | 32.1 | 1976 | 31.9 | 1977 | 32.3 | 1978 | 31.7 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 |
| 1976 | 31.6 | 1977 | 32.0 | 1978 | 31.3 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 |
| 1977 | 31.5 | 1978 | 30.9 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 |
| 1978 | 30.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 |
| 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 |
| 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 |
| 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 |
| 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 |
| 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 |
| 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 |
| 1985 | 0.0 | 1986 | 0.0 | 1987 | 0.0 | 1988 | 0.0 | 1989 | 0.0 | 1990 | 0.0 | 1991 | 0.0 | 1992 | 0.0 | 1993 | 0.0 | 1994 | 0.0 | 1995 | 0.0 | 1996 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:
 19.6 MPH, TEMP=75 Degrees F.
 Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7

Continued on the next page.

TABLE 7.11C.2 (continued)
 BY-MODEL-YEAR EMISSION LEVELS FOR HIGH ALTITUDE
 HEAVY DUTY DIESEL POWERED VEHICLES
 NOx

| 1997 | | 1998 | | 1999 | | 2000 | | 2003 | | January 1 of 2005 | | Calendar Year 2008 | | 2010 | | 2012 | | 2015 | | 2018 | | 2020 | |
|------|------|------|------|------|------|------|------|------|------|----------------------|------|-----------------------|------|------|------|------|------|------|-----|------|-----|------|-----|
| MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** | MY* | E** |
| 1973 | 34.5 | 1974 | 34.4 | 1975 | 34.3 | 1976 | 34.2 | 1979 | 24.0 | 1981 | 21.6 | 1984 | 19.2 | 1986 | 17.7 | 1988 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 |
| 1974 | 34.3 | 1975 | 34.2 | 1976 | 34.1 | 1977 | 34.6 | 1980 | 21.6 | 1982 | 18.9 | 1985 | 17.7 | 1987 | 17.3 | 1989 | 16.9 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 |
| 1975 | 34.1 | 1976 | 34.0 | 1977 | 34.4 | 1978 | 33.9 | 1981 | 21.6 | 1983 | 18.2 | 1986 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 |
| 1976 | 33.9 | 1977 | 34.3 | 1978 | 33.8 | 1979 | 24.0 | 1982 | 18.9 | 1984 | 19.2 | 1987 | 17.3 | 1989 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 |
| 1977 | 34.2 | 1978 | 33.6 | 1979 | 24.0 | 1980 | 21.6 | 1983 | 18.2 | 1985 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1992 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 |
| 1978 | 33.5 | 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1984 | 19.2 | 1986 | 17.7 | 1989 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 |
| 1979 | 24.0 | 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1985 | 17.7 | 1987 | 17.3 | 1990 | 9.9 | 1992 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 |
| 1980 | 21.6 | 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1986 | 17.7 | 1988 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 |
| 1981 | 21.6 | 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1987 | 17.3 | 1989 | 16.9 | 1992 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 |
| 1982 | 18.9 | 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1988 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2003 | 6.5 | 2005 | 6.5 |
| 1983 | 18.2 | 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1989 | 16.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2006 | 6.5 |
| 1984 | 19.2 | 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1990 | 9.9 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2007 | 6.5 |
| 1985 | 17.7 | 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1991 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2008 | 6.5 |
| 1986 | 17.7 | 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1992 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2009 | 6.5 |
| 1987 | 17.3 | 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1993 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2008 | 6.5 | 2010 | 6.5 |
| 1988 | 16.9 | 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1994 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2009 | 6.5 | 2011 | 6.5 |
| 1989 | 16.9 | 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1995 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2010 | 6.5 | 2012 | 6.5 |
| 1990 | 9.9 | 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1996 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2005 | 6.5 | 2008 | 6.5 | 2011 | 6.5 | 2013 | 6.5 |
| 1991 | 8.2 | 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1997 | 8.2 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2006 | 6.5 | 2009 | 6.5 | 2012 | 6.5 | 2014 | 6.5 |
| 1992 | 8.2 | 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 | 1998 | 6.5 | 2000 | 6.5 | 2003 | 6.5 | 2005 | 6.5 | 2007 | 6.5 | 2010 | 6.5 | 2013 | 6.5 | 2015 | 6.5 |
| 1993 | 8.2 | 1994 | 8.2 | 1995 | 8.2 | 1996 | 8.2 | 1999 | 6.5 | 2001 | 6.5 | 2004 | 6.5 | 2006 | 6.5 | 2008 | 6.5 | 2011 | 6.5 | 2014 | 6.5 | 2016 | 6.5 |
| 1994 | 8.2 | 1995 | 8.2 | 1996 | 8.2 | 1997 | 8.2 | 2000 | 6.5 | 2002 | 6.5 | 2005 | 6.5 | 2007 | 6.5 | 2009 | 6.5 | 2012 | 6.5 | 2015 | 6.5 | 2017 | 6.5 |
| 1995 | 8.2 | 1996 | 8.2 | 1997 | 8.2 | 1998 | 6.5 | 2001 | 6.5 | 2003 | 6.5 | 2006 | 6.5 | 2008 | 6.5 | 2010 | 6.5 | 2013 | 6.5 | 2016 | 6.5 | 2018 | 6.5 |
| 1996 | 8.2 | 1997 | 8.2 | 1998 | 6.5 | 1999 | 6.5 | 2002 | 6.5 | 2004 | 6.5 | 2007 | 6.5 | 2009 | 6.5 | 2011 | 6.5 | 2014 | 6.5 | 2017 | 6.5 | 2019 | 6.5 |
| 1997 | 0.0 | 1998 | 0.0 | 1999 | 0.0 | 2000 | 0.0 | 2003 | 0.0 | 2005 | 0.0 | 2008 | 0.0 | 2010 | 0.0 | 2012 | 0.0 | 2015 | 0.0 | 2018 | 0.0 | 2020 | 0.0 |

*MY -- Indicates the model year.

**E -- Indicates the average grams/mile emission level for model year "MY" on January 1 of the given calendar year. These emission levels are calculated for the FTP test conditions:

19.6 MPH, TEMP=75 Degrees F.

Emissions are based on the January 1 mileage accumulation figures given in Table 2.4.7