

Inventario de emisiones de contaminantes atmosféricos por fuente, 1999
(Toneladas)

| Entidad federativa | Tipo de fuente | Contaminante | | | | | | |
|---------------------|----------------------------|-----------------|------------|------------|--------------|------------------|-------------------|-----------------|
| | | SO ₂ | CO | NOx | COV | PM ₁₀ | PM _{2.5} | NH ₃ |
| Aguascalientes | Fuentes fijas | 1,576.38 | 42.39 | 283.56 | 2,111.04 | 490.13 | 307.68 | - |
| | Fuentes de área | 5,206.75 | 6,989.74 | 2,760.35 | 19,794.51 | 2,525.33 | 1,070.09 | 22,844.29 |
| | Fuentes móviles carreteros | 276.37 | 47,815.55 | 6,624.50 | 5,687.20 | 544.10 | 516.79 | 72.66 |
| | Fuentes naturales | - | - | 6,710.91 | 23,703.04 | - | - | - |
| Baja California | Fuentes fijas | 26,605.12 | 757.81 | 5,695.51 | 16,649.74 | 4,697.39 | 3,849.78 | - |
| | Fuentes de área | 16,916.47 | 33,356.88 | 12,714.77 | 51,288.04 | 4,294.66 | 2,950.14 | 10,118.34 |
| | Fuentes móviles carreteros | 878.89 | 128,091.93 | 22,803.14 | 17,132.88 | 1,787.41 | 1,699.80 | 244.33 |
| | Fuentes naturales | - | - | 4,452.80 | 18,644.57 | - | - | - |
| Baja California Sur | Fuentes fijas | 18,945.58 | 867.56 | 4,781.11 | 743.42 | 1,108.34 | 845.53 | - |
| | Fuentes de área | 1,556.51 | 3,702.85 | 5,142.18 | 5,993.82 | 759.06 | 516.84 | 5,641.89 |
| | Fuentes móviles carreteros | 98.07 | 12,872.06 | 3,118.38 | 1,777.79 | 298.55 | 286.24 | 26.78 |
| | Fuentes naturales | - | - | 31,046.46 | 268,954.20 | - | - | - |
| Campeche | Fuentes fijas | 150,893.69 | 13,865.95 | 23,039.10 | 3,103.49 | 3,755.14 | 2,543.81 | - |
| | Fuentes de área | 695.30 | 37,909.96 | 15,195.52 | 13,484.22 | 6,547.36 | 5,010.75 | 14,610.92 |
| | Fuentes móviles carreteros | 167.16 | 22,660.55 | 5,000.98 | 3,207.50 | 511.47 | 490.22 | 38.62 |
| | Fuentes naturales | - | - | 21,058.10 | 985,542.26 | - | - | - |
| Coahuila | Fuentes fijas | 165,468.21 | 18,050.45 | 129,521.70 | 5,624.64 | 26,620.34 | 25,796.84 | - |
| | Fuentes de área | 8,915.07 | 20,151.75 | 8,601.77 | 45,972.75 | 3,429.09 | 2,045.74 | 26,669.51 |
| | Fuentes móviles carreteros | 706.62 | 109,621.88 | 19,076.27 | 13,603.61 | 1,559.32 | 1,485.89 | 169.48 |
| | Fuentes naturales | - | - | 62,081.12 | 376,073.77 | - | - | - |
| Colima | Fuentes fijas | 191,515.82 | 2,127.39 | 15,453.00 | 3,411.74 | 10,510.49 | 7,290.09 | - |
| | Fuentes de área | 521.31 | 9,491.32 | 4,403.97 | 8,003.06 | 1,705.76 | 1,216.12 | 6,131.49 |
| | Fuentes móviles carreteros | 111.85 | 15,883.01 | 3,101.64 | 2,239.25 | 278.92 | 266.39 | 31.81 |
| | Fuentes naturales | - | - | 2,348.36 | 82,740.77 | - | - | - |
| Chiapas | Fuentes fijas | 90,886.45 | 1,923.11 | 2,578.83 | 2,001.48 | 4,263.45 | 2,163.53 | - |
| | Fuentes de área | 2,607.24 | 277,373.52 | 7,315.45 | 92,831.14 | 45,726.71 | 36,277.88 | 93,799.75 |
| | Fuentes móviles carreteros | 631.90 | 101,193.71 | 12,516.33 | 13,196.97 | 814.08 | 762.27 | 176.52 |
| | Fuentes naturales | - | - | 42,470.21 | 1,196,504.58 | - | - | - |
| Chihuahua | Fuentes fijas | 65,187.57 | 13,821.67 | 18,133.31 | 2,892.77 | 7,241.40 | 6,278.70 | - |
| | Fuentes de área | 25,065.53 | 52,418.17 | 14,407.26 | 68,057.37 | 13,000.00 | 7,237.22 | 41,727.47 |
| | Fuentes móviles carreteros | 1,047.92 | 156,661.24 | 32,241.01 | 20,071.11 | 3,208.56 | 3,075.49 | 247.83 |
| | Fuentes naturales | - | - | 51,705.52 | 1,926,593.93 | - | - | - |
| Ciudad de México | Fuentes fijas | 2,645.70 | 1,233.96 | 1,550.04 | 12,943.69 | 1,043.31 | 799.67 | - |
| | Fuentes de área | 171.20 | 22,015.81 | 8,147.46 | 109,801.66 | 1,267.58 | 894.55 | 8,811.12 |
| | Fuentes móviles carreteros | 3,572.04 | 746,580.58 | 79,851.32 | 90,338.67 | 4,803.00 | 4,508.08 | 971.35 |
| | Fuentes naturales | - | - | 988.82 | 13,865.67 | - | - | - |
| Durango | Fuentes fijas | 24,840.37 | 684.91 | 4,379.45 | 15,886.91 | 1,865.20 | 1,361.75 | - |
| | Fuentes de área | 2,096.65 | 36,990.34 | 4,465.43 | 27,044.75 | 9,548.62 | 5,434.32 | 45,868.91 |
| | Fuentes móviles carreteros | 404.83 | 64,236.62 | 11,951.56 | 7,739.21 | 1,250.34 | 1,198.31 | 98.11 |
| | Fuentes naturales | - | - | 27,593.68 | 1,379,099.12 | - | - | - |
| Guanajuato | Fuentes fijas | 111,404.50 | 2,194.29 | 14,773.21 | 9,643.94 | 5,212.10 | 3,934.85 | - |
| | Fuentes de área | 21,546.32 | 75,075.68 | 10,678.90 | 73,219.09 | 16,828.70 | 10,865.04 | 52,279.41 |
| | Fuentes móviles carreteros | 1,103.79 | 192,513.52 | 24,649.34 | 23,320.87 | 2,091.45 | 1,984.16 | 344.30 |
| | Fuentes naturales | - | - | 43,739.94 | 96,632.39 | - | - | - |

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|--------------------|----------------------------|-----------------|------------|-----------|--------------|------------------|-------------------|-----------------|
| | | SO ₂ | CO | NOx | COV | PM ₁₀ | PM _{2.5} | NH ₃ |
| Guerrero | Fuentes fijas | 187,231.67 | 1,583.63 | 14,812.16 | 3,064.06 | 8,711.43 | 6,282.72 | - |
| | Fuentes de área | 3,329.42 | 159,956.90 | 5,761.98 | 62,159.34 | 25,656.82 | 21,182.34 | 52,120.21 |
| | Fuentes móviles carreteros | 562.53 | 89,364.06 | 11,047.58 | 11,793.44 | 691.93 | 646.78 | 160.05 |
| | Fuentes naturales | - | - | 40,706.41 | 1,297,720.71 | - | - | - |
| Hidalgo | Fuentes fijas | 356,966.21 | 7,254.30 | 37,833.83 | 3,265.39 | 18,861.77 | 13,021.98 | - |
| | Fuentes de área | 1,137.36 | 79,810.64 | 3,668.39 | 42,057.97 | 14,144.04 | 10,714.65 | 24,964.49 |
| | Fuentes móviles carreteros | 536.11 | 67,884.59 | 21,820.90 | 9,106.67 | 2,669.56 | 2,575.04 | 93.78 |
| | Fuentes naturales | - | - | 25,137.81 | 161,446.83 | - | - | - |
| Jalisco | Fuentes fijas | 18,239.38 | 4,265.99 | 4,661.87 | 10,433.37 | 6,277.45 | 3,335.97 | - |
| | Fuentes de área | 18,647.95 | 92,338.21 | 12,347.96 | 99,360.96 | 21,874.89 | 12,161.23 | 137,308.99 |
| | Fuentes móviles carreteros | 2,672.69 | 510,835.92 | 67,227.36 | 62,895.13 | 5,600.87 | 5,326.47 | 714.44 |
| | Fuentes naturales | 735,110.00 | - | 68,952.50 | 993,572.69 | 551,333.00 | 110,267.00 | - |
| México | Fuentes fijas | 12,316.39 | 4,717.11 | 12,826.08 | 15,103.25 | 3,144.83 | 2,472.90 | - |
| | Fuentes de área | 31,011.02 | 177,289.71 | 21,019.42 | 214,340.31 | 24,785.49 | 18,009.02 | 47,840.63 |
| | Fuentes móviles carreteros | 3,983.38 | 817,788.62 | 80,104.75 | 98,109.65 | 4,740.38 | 4,424.11 | 1,264.21 |
| | Fuentes naturales | - | - | 25,001.50 | 92,279.62 | - | - | - |
| Michoacán | Fuentes fijas | 27,715.14 | 1,451.35 | 13,450.40 | 2,619.44 | 6,356.35 | 3,661.57 | - |
| | Fuentes de área | 2,507.63 | 131,083.67 | 13,927.65 | 69,119.44 | 22,336.56 | 16,794.20 | 75,703.88 |
| | Fuentes móviles carreteros | 753.23 | 122,434.95 | 19,984.08 | 15,320.94 | 2,040.74 | 1,950.85 | 205.07 |
| | Fuentes naturales | - | - | 51,888.12 | 670,208.22 | - | - | - |
| Morelos | Fuentes fijas | 12,334.36 | 1,190.10 | 2,683.22 | 3,765.71 | 3,692.56 | 1,824.37 | - |
| | Fuentes de área | 1,150.76 | 25,604.62 | 2,875.11 | 24,136.83 | 3,849.82 | 2,989.42 | 11,876.22 |
| | Fuentes móviles carreteros | 378.28 | 61,964.81 | 9,051.76 | 7,736.65 | 777.11 | 738.66 | 97.50 |
| | Fuentes naturales | - | - | 6,196.73 | 43,251.43 | - | - | - |
| Nayarit | Fuentes fijas | 1,297.04 | 1,185.46 | 588.76 | 854.24 | 2,019.74 | 660.49 | - |
| | Fuentes de área | 1,333.82 | 23,869.80 | 1,846.67 | 14,013.51 | 4,686.92 | 3,112.97 | 23,941.28 |
| | Fuentes móviles carreteros | 225.37 | 29,886.87 | 7,390.90 | 4,267.51 | 896.06 | 861.63 | 46.06 |
| | Fuentes naturales | - | - | 11,796.30 | 464,105.11 | - | - | - |
| Nuevo León | Fuentes fijas | 82,031.73 | 22,114.52 | 20,564.07 | 22,319.46 | 10,651.29 | 9,422.34 | - |
| | Fuentes de área | 15,750.86 | 23,522.47 | 6,984.37 | 66,036.47 | 4,839.29 | 3,228.13 | 22,541.22 |
| | Fuentes móviles carreteros | 2,118.67 | 361,749.21 | 49,565.29 | 48,996.30 | 3,158.95 | 2,976.17 | 563.21 |
| | Fuentes naturales | - | - | 39,016.34 | 265,494.10 | - | - | - |
| Oaxaca | Fuentes fijas | 59,318.79 | 1,790.33 | 6,033.51 | 6,388.35 | 6,251.03 | 3,399.15 | - |
| | Fuentes de área | 1,925.91 | 238,831.31 | 11,816.07 | 77,965.76 | 38,001.99 | 31,232.97 | 61,634.75 |
| | Fuentes móviles carreteros | 574.98 | 91,390.98 | 14,305.56 | 11,608.70 | 1,341.46 | 1,278.69 | 135.40 |
| | Fuentes naturales | - | - | 43,951.42 | 2,053,153.06 | - | - | - |
| Puebla | Fuentes fijas | 13,968.24 | 1,435.02 | 3,486.53 | 5,463.62 | 8,167.59 | 6,493.21 | - |
| | Fuentes de área | 3,060.08 | 167,032.97 | 8,124.97 | 100,566.15 | 27,671.06 | 22,017.45 | 60,917.06 |
| | Fuentes móviles carreteros | 1,105.12 | 192,604.80 | 24,497.60 | 23,316.77 | 1,851.75 | 1,750.44 | 308.21 |
| | Fuentes naturales | 1,871,440.00 | - | 42,981.37 | 210,429.53 | 1,403,580.00 | 280,716.00 | - |
| Querétaro | Fuentes fijas | 3,046.18 | 653.75 | 2,199.04 | 1,381.68 | 2,140.49 | 1,587.79 | - |
| | Fuentes de área | 5,343.03 | 24,326.31 | 2,495.49 | 26,385.84 | 4,668.70 | 3,301.68 | 15,312.95 |
| | Fuentes móviles carreteros | 327.38 | 54,235.30 | 8,463.73 | 6,576.46 | 715.65 | 681.59 | 99.74 |
| | Fuentes naturales | - | - | 14,778.44 | 84,248.01 | - | - | - |

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(Toneladas)

| Entidad federativa | Tipo de fuente | Contaminante | | | | | | |
|--------------------|----------------------------|-----------------|--------------|--------------|---------------|------------------|-------------------|-----------------|
| | | SO ₂ | CO | NOx | COV | PM ₁₀ | PM _{2.5} | NH ₃ |
| Quintana Roo | Fuentes fijas | 1,024.02 | 718.91 | 1,658.97 | 633.90 | 941.96 | 471.39 | - |
| | Fuentes de área | 1,872.82 | 29,897.16 | 4,440.10 | 14,424.06 | 4,800.87 | 3,791.52 | 4,834.38 |
| | Fuentes móviles carreteros | 239.10 | 34,961.93 | 6,147.53 | 4,798.02 | 477.89 | 454.34 | 62.23 |
| | Fuentes naturales | - | - | 11,666.44 | 900,259.08 | - | - | - |
| San Luis Potosí | Fuentes fijas | 83,407.52 | 3,208.01 | 9,176.61 | 2,864.35 | 9,209.68 | 5,685.69 | - |
| | Fuentes de área | 1,481.91 | 84,567.91 | 4,818.69 | 43,572.70 | 14,819.33 | 11,081.98 | 34,262.24 |
| | Fuentes móviles carreteros | 567.07 | 93,029.04 | 16,236.60 | 11,077.83 | 1,640.22 | 1,570.29 | 127.89 |
| | Fuentes naturales | - | - | 35,717.60 | 259,688.73 | - | - | - |
| Sinaloa | Fuentes fijas | 102,862.85 | 1,999.30 | 10,274.56 | 1,488.73 | 7,876.73 | 4,614.68 | - |
| | Fuentes de área | 1,988.14 | 48,938.66 | 6,884.90 | 36,656.64 | 13,459.36 | 7,276.04 | 61,934.35 |
| | Fuentes móviles carreteros | 680.03 | 90,505.07 | 21,786.75 | 12,468.81 | 2,255.32 | 2,164.43 | 193.46 |
| | Fuentes naturales | - | - | 60,311.40 | 766,573.77 | - | - | - |
| Sonora | Fuentes fijas | 157,276.72 | 3,146.86 | 12,964.37 | 1,617.23 | 30,880.74 | 14,737.24 | - |
| | Fuentes de área | 1,911.48 | 65,669.49 | 10,154.81 | 41,712.68 | 9,179.16 | 6,926.98 | 49,001.37 |
| | Fuentes móviles carreteros | 586.74 | 79,316.38 | 18,159.34 | 10,857.39 | 1,743.79 | 1,671.09 | 153.73 |
| | Fuentes naturales | - | - | 56,601.86 | 788,088.43 | - | - | - |
| Tabasco | Fuentes fijas | 145,454.49 | 22,980.21 | 8,990.57 | 21,880.19 | 18,209.30 | 10,057.92 | - |
| | Fuentes de área | 3,031.05 | 64,161.94 | 10,586.88 | 29,802.96 | 10,207.91 | 8,484.00 | 40,710.44 |
| | Fuentes móviles carreteros | 350.40 | 50,395.85 | 9,227.57 | 6,892.85 | 801.12 | 763.65 | 130.65 |
| | Fuentes naturales | - | - | 8,424.71 | 164,650.91 | - | - | - |
| Tamaulipas | Fuentes fijas | 151,901.74 | 11,743.20 | 15,224.03 | 26,824.86 | 6,295.67 | 4,268.66 | - |
| | Fuentes de área | 2,431.36 | 36,999.80 | 10,709.41 | 48,709.41 | 10,121.96 | 4,790.80 | 37,294.37 |
| | Fuentes móviles carreteros | 934.22 | 124,775.10 | 30,658.62 | 17,312.47 | 3,265.77 | 3,136.26 | 219.58 |
| | Fuentes naturales | - | - | 79,399.96 | 466,344.28 | - | - | - |
| Tlaxcala | Fuentes fijas | 2,902.01 | 107.82 | 497.32 | 533.00 | 264.73 | 153.23 | - |
| | Fuentes de área | 2,477.62 | 24,414.01 | 2,430.43 | 18,700.97 | 4,318.86 | 2,951.07 | 8,272.36 |
| | Fuentes móviles carreteros | 251.53 | 41,192.01 | 7,082.20 | 5,103.91 | 753.25 | 721.29 | 69.14 |
| | Fuentes naturales | - | - | 7,410.40 | 8,832.95 | - | - | - |
| Veracruz | Fuentes fijas | 336,709.72 | 20,101.24 | 46,792.81 | 40,595.04 | 78,152.71 | 49,925.88 | - |
| | Fuentes de área | 4,307.54 | 319,182.55 | 30,159.20 | 140,542.49 | 48,875.03 | 41,016.83 | 124,010.10 |
| | Fuentes móviles carreteros | 1,374.56 | 208,679.81 | 33,567.72 | 27,910.32 | 2,842.87 | 2,702.87 | 382.50 |
| | Fuentes naturales | - | - | 51,233.90 | 441,634.04 | - | - | - |
| Yucatán | Fuentes fijas | 27,942.20 | 315.42 | 3,324.99 | 1,699.49 | 1,871.39 | 1,517.85 | - |
| | Fuentes de área | 1,481.34 | 82,044.38 | 7,430.68 | 35,456.42 | 12,579.60 | 10,819.39 | 36,270.58 |
| | Fuentes móviles carreteros | 404.35 | 60,577.19 | 9,646.50 | 8,211.24 | 699.47 | 662.34 | 101.86 |
| | Fuentes naturales | - | - | 17,553.06 | 608,910.62 | - | - | - |
| Zacatecas | Fuentes fijas | 19.45 | 79.67 | 641.94 | 46.75 | 503.58 | 283.01 | - |
| | Fuentes de área | 3,162.29 | 25,833.67 | 4,004.53 | 22,375.85 | 12,742.50 | 4,967.59 | 38,577.65 |
| | Fuentes móviles carreteros | 313.19 | 43,742.16 | 12,525.26 | 5,535.16 | 1,696.35 | 1,636.85 | 58.94 |
| | Fuentes naturales | - | - | 25,691.11 | 334,655.87 | - | - | - |
| Nacional | Fuentes fijas | 2,633,935.24 | 167,611.69 | 448,874.46 | 247,854.97 | 297,288.31 | 199,050.27 | - |
| | Fuentes de área | 194,641.74 | 2,500,852.20 | 276,320.77 | 1,743,587.17 | 439,253.03 | 320,368.95 | 1,297,832.50 |
| | Fuentes móviles carreteros | 27,938.70 | 4,825,445.30 | 699,432.50 | 608,211.50 | 57,807.60 | 54,967.80 | 7,609.20 |
| | Fuentes naturales | 2,606,550.00 | - | 1,018,613.20 | 17,443,902.40 | 1,954,913.00 | 390,983.00 | - |

NOTAS

| Variable | Notas |
|---|--|
| Emisiones de contaminantes atmosféricos | La información de 1999 procede del primer Inventario Nacional de Emisiones de contaminantes atmosféricos. Este primer Inventario es el único en que se reportan emisiones geodéicas que, en particular correspondieron a SO ₂ y partículas suspendidas, y derivaron de erupciones de los volcanes Colima y Popocatepetl. En las ediciones posteriores del Inventario se incorporan mejoras metodológicas, así como elementos de desdoble que detallan la información, por lo que no es comparable la información entre inventarios. Con motivo de la reforma de la Constitución Política de los Estados Unidos Mexicanos publicada el 29 de enero de 2016 en el Diario Oficial de la Federación, el Distrito Federal cambió su denominación a Ciudad de México. La información correspondiente a dicha entidad se presenta con este nuevo nombre. |

FUENTES

Instituto Nacional de Ecología, Inventario Nacional de Emisiones de México 1999, INE-SEMARNAT, México, 2006.