

1.1. 일산화탄소
(CO) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	640072.7426	12837740.08	246405.7141	0	95976712.21	3482587.436	368139.513	998339.7	114549997.4
부산광역시	2277283.047	2624352.226	489450.1212	18511.82868	31976718.2	3463459.099	143004.5486	455925.5	41448704.57
대구광역시	139505.2956	5975563.309	165462.586	662.34396	25125252.8	1206541.083	100953.0858	367103	33081043.5
인천광역시	9594465.569	696735.2846	641585.6974	574416.1111	30606580.17	5095024.141	185858.8496	332122.9	47726788.72
광주광역시	0	3024049.077	35400.19895	152.36472	10565685.56	927951.0751	55634.05312	261352.8	14870225.13
대전광역시	81930.3462	4312373.34	38708.02851	282.83296	15519946.25	1430331.467	159892.1947	240035.9	21783500.36
울산광역시	2838783.358	389241.5776	2031550.655	8502841.214	12975772.8	1682838.284	89836.54594	225678.9	28736543.34
경기도	5485376.643	7990210.973	1110808.752	97715.3716	98088112.85	11900497.81	741853.2328	1622799.9	127037375.5
강원도	719928.3696	9957119.448	1656674.989	268.23504	15115715.14	1863060.166	48342.29708	396110	29757218.64
충청북도	49268.1714	9949501.53	947026.1002	10017.675	18068481.57	2051032.17	82579.05246	276298.1	31434204.37
충청남도	10483361.74	4694606.857	875639.0069	1610526.942	21575526.72	3757591.397	95633.4119	439013.4	43531899.48
전라북도	97840.775	2994323.697	403977.9497	82267.9944	19618944.72	2207695.601	119296.1835	307710.1	25832057.02
전라남도	1510955.823	2066991.046	1858785.79	4952552.735	18347999.25	3813042.882	73862.35798	430248.3	33054438.19
경상북도	136051.9	15726078.73	1767921.82	2524727.455	31052382.1	4510499.659	96764.02111	540846.8	56355272.48
경상남도	4593554.821	3037378.279	746251.5735	1884.94576	33608160.6	3361003.599	201773.992	539399.4	46089407.21
제주도	1229347.912	110471.2194	9265.6926	77.55092	5224068.891	1643319.21	57673.628	98285.4	8372509.505
수도권 대기관리 권역	15719914.96	19216865.52	1642222.627	590063.6496	213760617	18651711.93	1268746.088	2647083.9	273497225.7
수도권	15719914.96	21524686.33	1998800.164	672131.4827	224671405.2	20478109.39	1295851.595	2953262.5	289314161.6
전국	39877726.52	86386736.67	13024914.67	18378905.6	483446059.8	52396475.08	2621096.968	7531270.1	703661185.4

1.2. 질산화물
(NOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	507180	18427487.87	814113.6777	0	43490707.49	6914831.85	1315253.328	23502.4	71493076.61
부산광역시	1200613.588	6151050.494	1914681.674	814433.2706	17965950.29	19734987.41	759732.69	10750	48552199.42
대구광역시	1165133.269	4064565.838	1619371.725	52036.00056	16179262.69	2644286.882	519812.15	8650.5	26253119.06
인천광역시	12168767.05	4016963.278	1970036.771	1474415.577	14609448.85	11015087.75	1169315.477	7905.3	46431940.05
광주광역시	0	2330200.812	179790.4236	29378.38316	5936252.199	1997667.964	266185.421	6172.8	10745648
대전광역시	613019.544	3845079.815	181117.301	254027.6158	8712197.783	3232379.892	738384.2805	5690.2	17581896.43
울산광역시	14863995.74	1995932.519	14427245.71	1248339.594	9776282.093	9187971.443	613521.442	5333.2	52118621.75
경기도	11135885.52	13680793.16	7674587.054	3324865.802	104755915.7	29400671.87	4216479.198	38226	174227424.3
강원도	4018101.743	3481409.746	50862026.22	33389.45932	18860626.88	5530852.32	173819.5191	9415.2	82969641.09
충청북도	420584.54	3493762.129	27857974.3	257786.4368	24330531.53	4646645.212	707070.6365	6753.4	61721108.18
충청남도	63657570.66	3629957.856	3691366.452	1775141.92	29983564.51	11086685.1	473194.989	10355	114307836.5
전라북도	786599.651	2855258.532	2986699.382	1348266.334	21476572.2	5836784.309	1293458.322	7359.3	36590998.03
전라남도	12312695.55	2798975.968	21647703.47	16773524.92	23353062.02	16716686.47	820006.126	10412.4	94433066.92
경상북도	2436231.477	6136886.879	16059464.54	16511781.64	43055668.07	12394815.52	847090.137	13092.3	97455030.56
경상남도	36233206.19	5057968.485	3603227.365	918915.9748	41980556.96	11629184.45	1218282.248	12866.6	100654208.3
제주도	2158855.207	617214.1673	45870.95318	4063.20504	3737422.202	2814409.02	187785.21	2327	9567946.964
수도권 대기관리 권역	23811832.57	34681013.41	7713198.947	2254338.825	144471512.5	43168991.14	6487141.151	62339.4	262650367.9
수도권	23811832.57	36125244.31	10458737.5	4799281.379	162856072	47330591.48	6701048.002	69633.7	292152441
전국	163678439.7	82583507.55	155535277	44820366.13	428204021.5	154783947.5	15319391.17	178811.6	1045103762

1.3. 황산화물
(SOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	4391.78652	4354285.563	60672.60004	0	113508.5376	514409.9398	486145.8709	5533414.297
부산광역시	164014.6743	15785133.81	595174.0427	1105889.463	42852.58827	19112748.07	110904.4136	36916717.06
대구광역시	1396653.052	1867500.173	1487467.716	18545.63628	35538.25582	178601.6488	67890.49577	5052196.977
인천광역시	3317200.495	3428674.403	764368.7303	2435370.851	42881.86255	5196742.468	244106.5749	15429345.38
광주광역시	0	932560.1734	44337.87088	4652.26618	17837.15289	145714.6995	77028.39201	1222130.555
대전광역시	650087.661	1558941.173	95298.48567	7919.32732	20819.19618	219503.273	176480.3289	2729049.445
울산광역시	8265188.872	2831976.314	9569407.393	27986456.72	18262.34917	8336239.427	116004.0844	57123535.16
경기도	2858328.808	3125170.522	7226615.837	2705554.164	145684.6468	5303800.819	880167.4052	22245322.2
강원도	3375037.326	3518334.02	25108698.91	604528.1897	24762.0832	2117336.637	42642.75239	34791339.92
충청북도	95023.52301	3199421.144	11087775.58	501428.0506	29305.56524	222546.7526	44592.95132	15180093.57
충청남도	41757291.98	3708515.379	1444440.479	6598710.68	34429.75185	4049716.803	116539.909	57709644.99
전라북도	643196.608	2238852.865	3146418.148	1842388.901	28767.60828	1310161.01	89518.47047	9299303.611
전라남도	14002724.57	4233368.553	26012256.8	26804481.83	28560.82474	12349667.38	57173.18379	83488233.15
경상북도	2046002.772	5449445.207	16091135.92	10773411.16	48234.22242	3427213.536	69152.303	37904595.11
경상남도	16835128.69	4225903.997	1734266.096	1328817.079	51381.20771	6283370.717	220215.4553	30679083.24
제주도	1260059.087	386593.2702	60412.03547	2171.42868	7638.22265	894898.2033	64676.352	2676448.599
수도권 대기관리 권역	6179921.09	10164174.95	4340369.067	2842245.616	281061.7226	10745295.06	1584113.859	36137181.37
수도권	6179921.09	10908130.49	8051657.167	5140925.016	302075.047	11014953.23	1610419.851	43208081.88
전국	96670329.91	60844676.56	104528746.6	82720325.74	690464.0754	69662671.39	2863238.943	417980453.3

1.4. 총먼지
(TSP) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 먼지오염원	배출원대분류 합계
서울특별시	10520.73843	292090.2768	3844.35888	0	1455850.521	330657.1917	36492.68498	64501.72	2193957.492
부산광역시	69916.37819	246683.0861	241540.0037	35399.45322	780476.4884	1145784.973	24828.65726	29657	2574286.039
대구광역시	37874.11299	127948.1783	684138.5046	891.96868	698065.8172	140084.2765	22922.564	23817.4	1735742.822
인천광역시	472055.4449	54211.72792	269631.0381	327186.5109	562923.9921	498888.8858	29502.13502	22487.84	2236887.575
광주광역시	0	72613.20504	2634.93495	226.17272	285509.9944	101957.6037	5442.67699	17125.44	485510.0278
대전광역시	7806.10571	109351.8196	4653.87163	660.0738	376394.7392	172538.117	22744.29868	15976.76	710125.7856
울산광역시	286131.0946	35259.38956	9657822.815	1871688.326	431313.3126	538788.0609	25903.93516	14823.16	12861730.09
경기도	213904.0671	247098.4925	1055250.476	82055.88799	4003842.247	1600512.889	132016.2707	105119.4	7439799.73
강원도	142163.493	217656.3466	31637902.02	814770.0621	854566.3151	319259.1329	5360.56942	26664.16	34018342.1
충청북도	6810.25199	212768.7486	7656878.579	240162.8186	1102595.066	275243.2789	22822.88869	20810.12	9538091.752
충청남도	2272523.478	155670.2437	135706.7466	184845.069	1357311.655	657039.527	14022.20023	28601.6	4805720.519
전라북도	13541.07698	148999.9047	66159.61778	36583.27416	994195.7603	346100.3706	34725.00872	21251.84	1661556.853
전라남도	348564.1674	131656.0059	48472950.26	3779978.608	1079017.435	1007049.306	24282.81631	31170.12	54874668.72
경상북도	23517.92301	359450.3827	25400721.2	3272795.473	1919570.262	753633.0047	24193.13191	39222.04	31793103.41
경상남도	971376.589	232112.6732	323639.8566	116318.9504	1860302.63	690523.9936	37967.46208	36850.88	4269093.035
제주도	34884.4627	67901.50212	2332.26159	151.35892	175455.895	109938.5026	6971.312	6507.2	404142.4949
수도권 대기관리 권역	696480.2504	537120.1922	1054806.824	348163.8374	5346647.038	2204481.656	192674.1375	171300.12	10551674.06
수도권	696480.2504	593400.4972	1328725.873	409242.3989	6022616.76	2430058.966	198011.0907	192108.96	11870644.8
전국	4911589.384	2711471.983	125615806.5	10763714.01	17937392.13	8687999.114	470198.6122	504586.68	171602758.5

1.5. 총먼지
(TSP) 배출량 [비
산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	비산먼지*	배출원대분류 합계
서울특별시	10520.73843	292090.2768	3844.35888	0	1455850.521	330657.1917	36492.68498	64501.72	49599403.22	51793360.71
부산광역시	69916.37819	246683.0861	241540.0037	35399.45322	780476.4884	1145784.973	24828.65726	29657	25097635.55	27671921.59
대구광역시	37874.11299	127948.1783	684138.5046	891.96868	698065.8172	140084.2765	22922.564	23817.4	16404882.56	18140625.38
인천광역시	472055.4449	54211.72792	269631.0381	327186.5109	562923.9921	498888.8858	29502.13502	22487.84	24933789.08	27170676.65
광주광역시	0	72613.20504	2634.93495	226.17272	285509.9944	101957.6037	5442.67699	17125.44	8824570.42	9310080.448
대전광역시	7806.10571	109351.8196	4653.87163	660.0738	376394.7392	172538.117	22744.29868	15976.76	9140754.564	9850880.35
울산광역시	286131.0946	35259.38956	9657822.815	1871688.326	431313.3126	538788.0609	25903.93516	14823.16	11365834.73	24227564.82
경기도	213904.0671	247098.4925	1055250.476	82055.88799	4003842.247	1600512.889	132016.2707	105119.4	106596880.1	114036679.8
강원도	142163.493	217656.3466	31637902.02	814770.0621	854566.3151	319259.1329	5360.56942	26664.16	20411113.44	54429455.53
충청북도	6810.25199	212768.7486	7656878.579	240162.8186	1102595.066	275243.2789	22822.88869	20810.12	23994264.01	33532355.76
충청남도	2272523.478	155670.2437	135706.7466	184845.069	1357311.655	657039.527	14022.20023	28601.6	35182185.12	39987905.64
전라북도	13541.07698	148999.9047	66159.61778	36583.27416	994195.7603	346100.3706	34725.00872	21251.84	27583230.57	29244787.42
전라남도	348564.1674	131656.0059	48472950.26	3779978.608	1079017.435	1007049.306	24282.81631	31170.12	38300705.95	93175374.68
경상북도	23517.92301	359450.3827	25400721.2	3272795.473	1919570.262	753633.0047	24193.13191	39222.04	44062262.78	75855366.2
경상남도	971376.589	232112.6732	323639.8566	116318.9504	1860302.63	690523.9936	37967.46208	36850.88	40877781.18	45146874.22
제주도	34884.4627	67901.50212	2332.26159	151.35892	175455.895	109938.5026	6971.312	6507.2	8600683.583	9004826.078
수도권 대기관리 권역	696480.2504	537120.1922	1054806.824	348163.8374	5346647.038	2204481.656	192674.1375	171300.12	156245099.7	166796773.7
수도권	696480.2504	593400.4972	1328725.873	409242.3989	6022616.76	2430058.966	198011.0907	192108.96	181130072.4	193000717.2
전국	4911589.384	2711471.983	125615806.5	10763714.01	17937392.13	8687999.114	470198.6122	504586.68	490975976.8	662578735.3

* 도로재비산 먼
지의 silt loading
값 주적 후

1.6. 미세먼지
(PM₁₀) 배출량

비산먼지제외
(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	10520.73843	248733.4455	3701.38745	0	1455850.521	330279.3027	26420.70393	40985.29	2116491.389
부산광역시	62606.07649	223094.476	150173.5349	26290.26005	780476.4884	763822.2977	17975.94793	18843.75	2043282.832
대구광역시	22185.67281	103397.0372	402685.3896	691.75166	698065.8172	140044.0659	16595.93634	15133.55	1398799.221
인천광역시	351730.648	51453.53017	162898.845	225333.5554	562923.9921	403440.7921	21359.54571	14285.38	1793426.289
광주광역시	0	59861.4117	2444.92348	171.8052	285509.9944	101907.5961	3940.49817	10880.88	464717.1091
대전광역시	4621.2146	90867.5061	4282.1589	464.01936	376394.7392	172538.117	16466.87242	10150.17	675784.7976
울산광역시	194158.0041	33022.06392	5685319.983	956228.464	431313.3126	373105.4545	18754.4497	9417.97	7701319.702
경기도	176241.2994	216683.74	678024.8241	61094.96734	4003842.247	1528281.117	95579.77997	66793.35	6826541.325
강원도	82759.14751	173050.9113	18416327.62	63806.41709	854566.3151	280971.5103	3881.05211	16938.92	19892301.9
충청북도	4032.67234	168836.8592	4469320.172	56317.99299	1102595.066	275198.6116	16523.77128	13212.39	6106037.536
충청남도	1337002.012	131996.5503	131178.6149	84878.95129	1357311.655	583566.8049	10152.07285	18173	3654259.661
전라북도	8129.35923	130353.8171	56986.49167	27314.39544	994195.7603	324600.5315	25140.90627	13498.78	1580220.042
전라남도	219648.6638	116863.3332	28244642.85	2385560.444	1079017.435	763568.4574	17580.75932	19793.79	32846675.73
경상북도	13691.86649	288649.8513	14823697.44	1998547.728	1919570.262	693753.2976	17515.82764	24906.83	19780333.11
경상남도	566337.0165	207850.1338	206924.1919	84412.29365	1860302.63	570575.5937	27488.44367	23408.36	3547298.663
제주도	25851.68365	62422.48546	2138.86282	109.33516	175455.895	94691.95364	5047.22977	4134.2	369851.6455
수도권 대기관리 권역	538492.6859	470749.9962	648899.0712	236674.7584	5346647.038	2036423.901	139496.0754	108845.49	9526229.017
수도권	538492.6859	516870.7157	844625.0566	286428.5228	6022616.76	2262001.212	143360.0296	122064.02	10736459
전국	3079516.075	2307137.152	73440747.29	5971222.38	17937392.13	7400345.503	340423.7971	320556.61	110797340.9

1.7. 미세먼지
(PM₁₀) 배출량
[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	비산먼지*	배출원대분류 합계
서울특별시	10520.73843	248733.4455	3701.38745	0	1455850.521	330279.3027	26420.70393	40985.29	10493234.92	12609726.31
부산광역시	62606.07649	223094.476	150173.5349	26290.26005	780476.4884	763822.2977	17975.94793	18843.75	6198097.929	8241380.761
대구광역시	22185.67281	103397.0372	402685.3896	691.75166	698065.8172	140044.0659	16595.93634	15133.55	3477751.866	4876551.087
인천광역시	351730.648	51453.53017	162898.845	225333.5554	562923.9921	403440.7921	21359.54571	14285.38	5717932.215	7511358.504
광주광역시	0	59861.4117	2444.92348	171.8052	285509.9944	101907.5961	3940.49817	10880.88	1984446.454	2449163.563
대전광역시	4621.2146	90867.5061	4282.1589	464.01936	376394.7392	172538.117	16466.87242	10150.17	2016480.89	2692265.688
울산광역시	194158.0041	33022.06392	5685319.983	956228.464	431313.3126	373105.4545	18754.4497	9417.97	2638945.265	10340264.97
경기도	176241.2994	216683.74	678024.8241	61094.96734	4003842.247	1528281.117	95579.77997	66793.35	23808205.7	30634747.02
강원도	82759.14751	173050.9113	18416327.62	63806.41709	854566.3151	280971.5103	3881.05211	16938.92	4804828.901	24697130.8
충청북도	4032.67234	168836.8592	4469320.172	56317.99299	1102595.066	275198.6116	16523.77128	13212.39	5479970.655	11586008.19
충청남도	1337002.012	131996.5503	131178.6149	84878.95129	1357311.655	583566.8049	10152.07285	18173	8474364.504	12128624.16
전라북도	8129.35923	130353.8171	56986.49167	27314.39544	994195.7603	324600.5315	25140.90627	13498.78	6641166.191	8221386.232
전라남도	219648.6638	116863.3332	28244642.85	2385560.444	1079017.435	763568.4574	17580.75932	19793.79	10630535.48	43477211.21
경상북도	13691.86649	288649.8513	14823697.44	1998547.728	1919570.262	693753.2976	17515.82764	24906.83	10822787.02	30603120.12
경상남도	566337.0165	207850.1338	206924.1919	84412.29365	1860302.63	570575.5937	27488.44367	23408.36	9218316.25	12765614.91
제주도	25851.68365	62422.48546	2138.86282	109.33516	175455.895	94691.95364	5047.22977	4134.2	2460382.103	2830233.749
수도권 대기관리 권역	538492.6859	470749.9962	648899.0712	236674.7584	5346647.038	2036423.901	139496.0754	108845.49	33692966.8	43219195.82
수도권	538492.6859	516870.7157	844625.0566	286428.5228	6022616.76	2262001.212	143360.0296	122064.02	40019372.83	50755831.83
전국	3079516.075	2307137.152	73440747.29	5971222.38	17937392.13	7400345.503	340423.7971	320556.61	114867446.3	225664787.3

* 도로재미산 먼
지의 silt loading
값 주적 후

1.8. 휘발성유기
화합물(VOC) 배
출량

자연오염원제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	에너지수송 및 저장	유기용제 사용	도로이동오염원	비도로이동오염 원	폐기물처리	기타 연오염원	배출원대분류 합 계
서울특별시	86307.00702	830954.0997	38526.91262	0	3742567.513	54491603.94	20607607.3	720724.2142	254186.7216	82656.02	80855133.73
부산광역시	308225.7111	207598.5952	73855.91275	363963.9163	1603269.428	25500747.48	5695240.285	1057414.362	792405.6163	38057.5	35640778.81
대구광역시	21699.43413	125415.9087	27952.19938	263275.2005	1151905.721	19469661.03	4287585.839	294296.2904	1036988.356	30547.4	26709327.38
인천광역시	1290437.365	165167.1039	89565.07441	11907977.57	2137605.562	28841390.85	4944302.962	905370.3386	4325859.988	29091.94	54636768.75
광주광역시	0	83163.52276	5813.46839	17541.0356	725419.8548	12003160.71	2051842.906	210161.5022	410775.862	22009.44	15529888.3
대전광역시	21028.78887	136923.5953	7806.89162	133311.7033	980048.8573	11401457.95	2527994.104	365115.2943	1526361.592	20598.46	17120647.24
울산광역시	538982.8983	69754.69624	412324.3455	40533337.78	2026404.199	47752174.19	2326195.096	529792.1333	2418428.118	19059.86	96626453.31
경기도	775465.4936	550760.8764	215702.1991	1192350.941	7925223.477	133566981.8	18852885.57	2890948.629	10841273.78	134778.3	176946371.1
강원도	312183.931	61378.46928	375263.0564	130878.159	933881.238	13820922.53	2635850.254	496673.6374	233208.1888	34454.96	19034694.43
충청북도	12632.69024	69222.01746	175202.3985	343092.7588	882604.8034	18064523.7	3404000.616	579906.8245	5215306.085	27456.82	28773948.71
충청남도	1400159.404	95970.22829	148351.4042	20912854.77	1681588.494	26959891.46	3953145.899	1049944.88	1128939.391	36715	57367560.94
전라북도	12009.529	85861.15601	86768.14679	949843.0008	1017786.577	17633087.6	3495240.616	596364.5711	6596253.996	27599.14	30500814.34
전라남도	240387.4247	71464.19452	537478.5556	34815179.52	2017169.939	31175672.76	3293230.921	1151205.614	3901796.479	40843.02	77244428.43
경상북도	17766.066	132465.0266	434144.6731	7740656.717	1755116.652	32874582.67	5832003.96	1302628.002	3252134.474	51403.04	53392901.28
경상남도	556450.3008	152663.066	123741.8212	729586.2895	1887856.908	67798441.53	6306636.882	938790.8721	2905695.037	47756.68	81447619.39
제주도	157476.2675	21629.51538	1938.75732	52760.90568	191178.3788	4458202.935	875255.5847	200963.2268	60843.671	8380.6	6028629.842
수도권 대기관리 권역	2152209.865	1511689.937	261433.759	12895169.33	13119197.55	201317026.7	42117925.35	4082810.638	13410026.06	219586.62	291087075.9
수도권	2152209.865	1546882.08	343794.1862	13100328.51	13805396.55	216899976.6	44404795.83	4517043.181	15421320.49	246526.26	312438273.6
전국	5751212.31	2860392.072	2754435.817	120086610.3	30659627.6	545812503.2	91089018.8	13290300.39	44900457.36	651408.18	857855966

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	농업	기타 연오염원	배출원대분류 합계
서울특별시	22398.11126	245577.8672	11036.62069	7959.67347	1379858.778	30937.47732	3182.41269	473925.7983	2550206.749	4725083.489
부산광역시	74294.83982	107163.0902	26858.8301	0	461436.9867	39046.63266	1681.1623	493374.5099	891144.2501	2095000.302
대구광역시	6033.87707	55411.50901	12452.90374	0	416016.0002	12224.57247	1262.57836	946084.9657	614288.7499	2063775.156
인천광역시	287312.8251	68860.95884	28691.53409	1824696.42	372003.1355	27447.19625	981.14839	1556656.911	668323.5008	4834973.629
광주광역시	0	30302.15273	2897.24278	131.40598	203798.4577	9767.82616	579.29175	555009.8394	355675.4999	1158161.716
대전광역시	13108.85538	48972.76141	4247.00675	154.4753	253438.1205	15395.25499	594.79837	293418.9551	370223.7497	999553.9774
울산광역시	281024.4963	45260.81914	139696.2872	13527412.07	218141.7443	21229.88057	888.1104	1195187.625	278101.7502	15706942.79
경기도	235871.7752	216182.0475	116928.6167	107351.9658	2002235.705	134694.4958	5288.37021	37733282.99	2814382.749	43366218.72
강원도	5244.57973	39649.88218	16150.62328	120801.338	332996.9558	20253.32934	569.99035	10775480.75	373919.5002	11685066.95
충청북도	7882.90742	39671.48848	33624.34555	30.2855	356689.9972	16965.30816	659.19355	13745409.89	379896.7499	14580830.17
충청남도	110124.4128	65193.22131	59621.16238	6186095.392	443318.7567	38769.09883	886.29454	33228274.27	502698.9995	40634981.61
전라북도	597.72416	51618.09614	48401.96384	330.28797	361928.3372	22205.98295	905.74272	25746985.46	463943	26696916.59
전라남도	86884.74562	68380.52726	68871.15803	7119749.236	345903.3834	42968.21593	765.65686	27741242.73	464863.4995	35939629.15
경상북도	1826.24248	75533.65568	118540.2135	660038.6784	561587.5486	42697.26876	1597.85318	28975888.16	665228.7493	31102938.37
경상남도	14958.77055	90165.74558	53966.86884	1114803.034	650292.741	36976.4363	954.46021	20307496.14	804828.7499	23074442.94
제주도	50356.22795	15052.72459	1453.58066	11365.98852	89760.95426	6128.81169	103.63295	6740832.215	140154.4997	7055208.635
수도권 대기관리 권역	545582.7115	503178.9023	107290.6029	1916258.606	3465736.726	172556.4029	9107.93585	24917543.61	5815964.249	37453219.75
수도권	545582.7115	530620.8736	156656.7715	1940008.059	3754097.619	193079.1694	9451.93129	39763865.7	6032912.999	52926275.83
전국	1197920.391	1262996.547	743438.9581	30680920.26	8449407.602	517707.7882	20900.69683	210508551.2	12337880.75	265719724.2

2. 2007년 시도별 대분류별 배출량

2.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	809,316	13,022,307	428,480		108,789,073	18,845,562	282,654	932,769	143,110,161
부산광역시	3,001,855	2,659,714	607,105	18,550	40,875,003	4,733,454	143,951	381,397	52,421,030
대구광역시	130,965	5,291,826	389,345	408	29,405,733	2,659,185	94,959	299,425	38,271,846
인천광역시	9,986,817	739,713	906,118	1,012,298	36,855,329	8,044,700	179,064	316,629	58,040,668
광주광역시		2,503,425	112,126	108,1012	11,242,927	1,326,968	53,031	162,153	15,400,739
대전광역시	85,267	3,536,682	99,271	61,102	17,299,116	1,298,448	41,356	231,902	22,653,143
울산광역시	3,315,183	390,168	2,470,652	11,276,433	13,530,896	3,312,454	93,129	226,403	34,615,316
경기도	5,055,567	7,573,969	2,099,309	96,800	110,008,588	21,029,880	672,505	1,482,236	148,018,853
강원도	773,803	8,739,253	1,196,515	174	17,060,467	4,289,481	23,582	384,692	32,467,966
충청북도	47,080	9,594,765	974,492	741	19,922,358	3,402,165	102,414	144,467	34,188,482
충청남도	8,919,339	4,335,876	1,148,804	1,520,968	22,460,008	5,401,521	98,774	407,459	44,292,748
전라북도	29,121	2,757,439	740,337	65,142	22,628,916	3,006,320	88,760	278,820	29,594,853
전라남도	1,689,875	2,158,119	1,694,899	4,898,811	20,493,187	4,828,280	50,722	411,433	36,225,328
경상북도	129,352	14,141,781	1,735,679	2,818,267	33,601,240	5,750,879	62,984	489,324	58,729,506
경상남도	4,901,971	2,590,697	811,848	901	36,186,965	5,842,203	201,362	638,781	51,174,728
제주도	1,484,399	119,394	8,553	48	6,132,748	1,787,649	41,557	81,857	9,656,205
수도권 대기관리권역	15,851,700	19,230,975	3,092,157	1,032,530	243,798,287	45,130,991	1,104,735	2,458,126	331,699,501
수도권	15,851,700	21,335,989	3,433,907	1,109,097	255,652,990	47,920,142	1,134,222	2,731,635	349,169,682
전국	40,359,908	80,155,126	15,423,534	21,770,751	546,492,555	95,559,149	2,230,802	6,869,746	808,861,571

2.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	788,749	19,624,849	1,392,726		52,009,731	38,234,018	1,014,229	21,960	113,086,264
부산광역시	1,225,463	6,395,825	2,323,546	662,002	30,275,908	21,359,635	707,536	9,021	62,958,934
대구광역시	967,029	3,781,591	2,705,793	40,503	21,752,930	5,496,678	458,787	7,071	35,210,382
인천광역시	11,192,168	4,325,720	3,066,377	2,852,014	25,363,582	17,012,600	1,031,078	7,495	64,851,033
광주광역시		2,028,350	408,219	20,733	8,808,651	2,692,293	281,004	3,857	14,243,105
대전광역시	535,632	3,602,106	484,625	166,562	12,103,833	2,757,697	260,971	5,496	19,916,922
울산광역시	17,346,073	1,978,761	17,636,978	1,205,735	12,734,571	12,617,175	673,475	5,403	64,198,170
경기도	14,611,542	14,905,346	11,026,240	3,330,604	113,385,462	46,334,113	3,832,729	34,933	207,460,970
강원도	3,501,524	3,364,648	43,613,646	22,771	20,730,156	9,766,700	90,262	9,150	81,098,857
충청북도	480,519	3,431,934	26,432,949	134,273	24,823,010	7,295,082	1,159,614	3,454	63,760,836
충청남도	50,906,792	3,315,858	4,822,404	1,698,158	30,031,365	14,060,899	451,072	9,661	105,296,209
전라북도	416,030	2,885,364	4,919,833	1,265,132	24,905,475	7,269,998	714,525	6,679	42,383,037
전라남도	14,674,086	2,938,342	17,818,532	16,281,846	27,230,061	18,680,523	573,653	10,041	98,207,085
경상북도	2,350,784	5,631,214	14,413,759	20,266,353	42,228,712	14,459,279	459,769	11,976	99,821,846
경상남도	34,928,219	3,530,648	3,947,373	775,031	43,716,538	16,005,457	1,240,771	15,136	104,159,173
제주도	2,378,942	655,496	40,386	3,453	4,983,853	3,058,662	147,347	1,934	11,270,073
수도권 대기관리권역	26,592,459	37,365,586	13,266,223	3,590,539	171,027,038	95,685,319	5,719,609	57,919	353,304,692
수도권	26,592,459	38,855,915	15,485,343	6,182,617	190,758,776	101,580,732	5,878,036	64,387	385,398,266
전국	156,303,552	82,396,052	155,053,387	48,725,170	495,083,839	237,100,809	13,096,821	163,265	1,187,922,895

2.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	5,484	6,548,836	169,607		152,310	583,059	375,994	7,835,290
부산광역시	264,210	15,999,849	977,774	1,030,473	60,024	14,433,189	113,650	32,879,168
대구광역시	1,193,857	1,802,620	2,259,421	11,430	44,668	88,346	64,256	5,464,599
인천광역시	3,255,393	4,453,041	1,112,038	3,791,288	49,032	4,397,332	241,966	17,300,090
광주광역시		858,763	69,780	3,448	22,118	45,513	72,831	1,072,453
대전광역시	524,075	1,504,224	195,862	7,118	25,714	43,248	81,732	2,381,973
울산광역시	11,733,862	3,040,709	13,231,301	28,017,701	21,444	6,947,257	118,091	63,110,366
경기도	7,034,604	3,707,396	9,608,752	2,442,395	176,088	3,534,681	838,069	27,341,985
강원도	2,785,317	3,346,017	16,067,592	411,732	30,509	986,210	24,459	23,651,837
충청북도	110,171	3,223,880	11,193,946	767,589	34,969	124,147	70,142	15,524,846
충청남도	37,727,869	2,372,981	2,663,688	5,983,166	39,887	2,998,551	118,348	51,904,489
전라북도	486,131	2,339,296	5,004,479	1,823,966	36,551	958,975	90,036	10,739,434
전라남도	8,633,022	5,764,917	20,136,774	27,244,196	34,898	10,029,801	48,645	71,892,253
경상북도	2,374,295	5,141,047	16,579,931	13,053,130	54,920	2,441,386	45,285	39,689,994
경상남도	16,892,864	3,137,377	2,845,665	1,119,792	62,412	4,492,550	217,206	28,767,866
제주도	1,296,276	842,357	55,300	1,354	10,784	709,415	52,834	2,968,321
수도권 대기관리권역	10,295,482	13,875,187	7,050,823	4,089,801	351,854	8,435,095	1,425,884	45,524,125
수도권	10,295,482	14,709,273	10,890,397	6,233,683	377,429	8,515,071	1,456,029	52,477,364
전국	94,317,430	64,083,310	102,171,910	85,708,779	856,327	52,813,659	2,573,545	402,524,960

2.4. 총먼지(TSP) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	12,580	323,946	5,630		1,911,362	1,652,222	30,412	60,277	3,996,429
부산광역시	90,567	256,832	390,772	55,843	1,505,875	1,184,692	23,191	25,143	3,532,916
대구광역시	31,783	116,723	966,273	638	1,031,050	251,619	18,457	19,609	2,436,153
인천광역시	483,201	58,530	155,766	480,043	988,235	729,962	27,820	20,939	2,944,496
광주광역시		74,232	3,484	185	455,100	119,339	5,895	10,942	669,177
대전광역시	7,005	96,611	4,973	1,216	579,735	131,495	11,224	15,420	847,679
울산광역시	298,379	43,758	12,760,291	1,866,821	599,174	680,572	26,987	15,501	16,291,482
경기도	251,442	238,085	1,369,787	174,811	4,871,664	2,139,113	120,613	96,230	9,261,746
강원도	130,834	199,417	13,219,427	415,055	1,035,976	474,088	2,715	25,972	15,503,482
충청북도	8,808	208,771	5,494,990	512,270	1,224,736	377,432	29,567	9,963	7,866,537
충청남도	2,109,845	142,458	149,650	255,886	1,473,148	753,733	14,248	27,143	4,926,112
전라북도	7,763	153,100	112,833	71,248	1,258,471	388,761	25,241	19,384	2,036,802
전라남도	275,418	134,422	35,474,779	3,641,823	1,363,513	1,073,242	17,883	30,805	42,011,883
경상북도	20,109	325,259	19,910,403	3,730,932	2,042,473	807,573	16,251	37,036	26,890,036
경상남도	886,102	136,211	637,216	116,865	2,097,774	840,182	40,590	42,433	4,797,373
제주도	37,474	75,055	2,585	125	255,857	115,266	5,863	5,366	497,591
수도권 대기관리권역	747,223	568,138	1,273,927	588,988	6,989,398	4,244,939	174,866	159,419	14,746,898
수도권	747,223	620,561	1,531,183	654,854	7,771,261	4,521,297	178,845	177,447	16,202,671
전국	4,651,307	2,583,409	90,658,859	11,323,763	22,694,143	11,719,291	416,958	462,163	144,509,893

2.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	비산먼지*	배출원대분류 합계
서울특별시	12,580	323,946	5,630		1,911,362	1,652,222	30,412	60,277	53,933,215	57,929,644
부산광역시	90,567	256,832	390,772	55,843	1,505,875	1,184,692	23,191	25,143	28,380,446	31,913,362
대구광역시	31,783	116,723	966,273	638	1,031,050	251,619	18,457	19,609	18,442,163	20,878,316
인천광역시	483,201	58,530	155,766	480,043	988,235	729,962	27,820	20,939	29,697,253	32,641,749
광주광역시		74,232	3,484	185	455,100	119,339	5,895	10,942	9,938,132	10,607,308
대전광역시	7,005	96,611	4,973	1,216	579,735	131,495	11,224	15,420	10,196,642	11,044,321
울산광역시	298,379	43,758	12,760,291	1,866,821	599,174	680,572	26,987	15,501	11,674,251	27,965,734
경기도	251,442	238,085	1,369,787	174,811	4,871,664	2,139,113	120,613	96,230	102,232,939	111,494,685
강원도	130,834	199,417	13,219,427	415,055	1,035,976	474,088	2,715	25,972	18,843,797	34,347,280
충청북도	8,808	208,771	5,494,990	512,270	1,224,736	377,432	29,567	9,963	21,221,591	29,088,128
충청남도	2,109,845	142,458	149,650	255,886	1,473,148	753,733	14,248	27,143	27,352,515	32,278,627
전라북도	7,763	153,100	112,833	71,248	1,258,471	388,761	25,241	19,384	23,586,854	25,623,656
전라남도	275,418	134,422	35,474,779	3,641,823	1,363,513	1,073,242	17,883	30,805	30,707,874	72,719,757
경상북도	20,109	325,259	19,910,403	3,730,932	2,042,473	807,573	16,251	37,036	35,843,262	62,733,298
경상남도	886,102	136,211	637,216	116,865	2,097,774	840,182	40,590	42,433	37,092,850	41,890,223
제주도	37,474	75,055	2,585	125	255,857	115,266	5,863	5,366	7,541,671	8,039,262
수도권 대기관리권역	747,223	568,138	1,273,927	588,988	6,989,398	4,244,939	174,866	159,419	168,298,164	183,045,062
수도권	747,223	620,561	1,531,183	654,854	7,771,261	4,521,297	178,845	177,447	185,863,407	202,066,078
전국	4,651,307	2,583,409	90,658,859	11,323,763	22,694,143	11,719,291	416,958	462,163	466,685,455	611,195,348

* 도로재비산 먼지의 silt loading 값 조정 후(0.077g/㎡ → 고속국도 0.02g/㎡, 일반국도와 일반시도 0.06g/㎡, 국지도 0.08g/㎡, 지방도 0.12g/㎡, 특광역시(인천제외) 0.06g/㎡, 인천광역시 0.1g/㎡,으로 조정, 2007년)

2.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	12,580	278,060	5,378		1,911,362	1,651,864	22,019	38,301	3,919,562
부산광역시	81,647	232,437	237,307	40,905	1,505,875	828,232	16,791	15,974	2,959,168
대구광역시	18,610	94,972	570,614	480	1,031,050	251,574	13,363	12,459	1,993,122
인천광역시	367,341	55,441	99,668	292,539	988,235	629,037	20,141	13,303	2,465,706
광주광역시		62,660	3,237	137	455,100	119,284	4,268	6,951	651,637
대전광역시	4,147	81,086	4,584	772	579,735	131,495	8,126	9,797	819,741
울산광역시	204,738	40,755	7,485,862	927,998	599,174	509,455	19,539	9,846	9,797,367
경기도	206,492	210,308	852,960	118,717	4,871,664	2,066,013	87,324	61,144	8,474,622
강원도	76,174	159,790	7,698,046	43,491	1,035,976	452,616	1,966	16,499	9,484,557
충청북도	5,216	166,154	3,215,896	80,236	1,224,736	377,392	21,406	6,328	5,097,363
충청남도	1,235,935	120,759	143,594	130,211	1,473,148	683,127	10,315	17,244	3,814,335
전라북도	4,518	134,755	99,324	28,574	1,258,471	367,171	18,275	12,312	1,923,400
전라남도	177,965	119,204	20,681,660	2,150,382	1,363,513	826,299	12,947	19,559	25,351,528
경상북도	11,798	261,670	11,646,416	2,174,397	2,042,473	751,458	11,766	23,514	16,923,491
경상남도	516,736	120,514	397,028	84,990	2,097,774	732,172	29,387	26,958	4,005,560
제주도	26,852	69,016	2,371	87	255,857	99,985	4,245	3,409	461,821
수도권 대기관리권역	586,413	500,611	791,604	357,506	6,989,398	4,070,556	126,603	101,295	13,523,986
수도권	586,413	543,808	958,006	411,256	7,771,261	4,346,914	129,484	112,749	14,859,890
전국	2,950,748	2,207,580	53,143,946	6,073,914	22,694,143	10,477,175	301,877	293,599	98,142,981

2.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	비산먼지*	배출원대분류 합계
서울특별시	12,580	278,060	5,378		1,911,362	1,651,864	22,019	38,301	14,217,553	18,137,115
부산광역시	81,647	232,437	237,307	40,905	1,505,875	828,232	16,791	15,974	7,882,855	10,842,023
대구광역시	18,610	94,972	570,614	480	1,031,050	251,574	13,363	12,459	4,323,633	6,316,756
인천광역시	367,341	55,441	99,668	292,539	988,235	629,037	20,141	13,303	7,400,581	9,866,286
광주광역시		62,660	3,237	137	455,100	119,284	4,268	6,951	2,277,453	2,929,090
대전광역시	4,147	81,086	4,584	772	579,735	131,495	8,126	9,797	2,277,921	3,097,662
울산광역시	204,738	40,755	7,485,862	927,998	599,174	509,455	19,539	9,846	2,935,949	12,733,316
경기도	206,492	210,308	852,960	118,717	4,871,664	2,066,013	87,324	61,144	22,927,391	31,402,013
강원도	76,174	159,790	7,698,046	43,491	1,035,976	452,616	1,966	16,499	4,795,340	14,279,897
충청북도	5,216	166,154	3,215,896	80,236	1,224,736	377,392	21,406	6,328	4,790,396	9,887,759
충청남도	1,235,935	120,759	143,594	130,211	1,473,148	683,127	10,315	17,244	6,439,282	10,253,616
전라북도	4,518	134,755	99,324	28,574	1,258,471	367,171	18,275	12,312	5,494,913	7,418,314
전라남도	177,965	119,204	20,681,660	2,150,382	1,363,513	826,299	12,947	19,559	11,439,826	36,791,353
경상북도	11,798	261,670	11,646,416	2,174,397	2,042,473	751,458	11,766	23,514	9,526,752	26,450,244
경상남도	516,736	120,514	397,028	84,990	2,097,774	732,172	29,387	26,958	8,668,771	12,674,331
제주도	26,852	69,016	2,371	87	255,857	99,985	4,245	3,409	2,477,560	2,939,382
수도권 대기관리권역	586,413	500,611	791,604	357,506	6,989,398	4,070,556	126,603	101,295	40,670,445	43,785,496
수도권	586,413	543,808	958,006	411,256	7,771,261	4,346,914	129,484	112,749	44,545,525	59,405,415
전국	2,950,748	2,207,580	53,143,946	6,073,914	22,694,143	10,477,175	301,877	293,599	117,876,176	216,019,157

* 도로재비산 먼지의 silt loading 값 조정 후(0.077g/㎡ → 고속국도 0.02g/㎡, 일반국도와 일반시도 0.06g/㎡, 국지도 0.08g/㎡, 지방도 0.12g/㎡, 특광역시(인천제외) 0.06g/㎡, 인천광역시 0.1g/㎡,으로 조정, 2007년)

* 비산먼지 오류 정정

2.8. 휘발성유기화합물(VOC) 배출량

자연오염원제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	에너지수송 및 저장	유기용제 사용	도로이동오염원	비도로이동오염원	폐기물처리	기타 연오염원	배출원대분류 합계
서울특별시	109,236	872,288	63,547		3,829,312	63,978,364	17,548,138	4,751,391	229,320	77,246	91,458,843
부산광역시	406,374	212,151	90,227	1,295,342	1,674,770	27,115,646	7,580,439	1,389,763	613,804	32,353	40,410,869
대구광역시	20,330	125,094	61,919	2,079,146	1,089,394	20,952,890	5,110,118	699,488	892,042	25,199	31,055,622
인천광역시	1,346,649	178,447	127,733	13,998,995	1,627,814	28,686,740	6,947,028	1,713,275	3,631,034	26,962	58,284,676
광주광역시		71,800	16,356	33,790	716,881	11,432,549	1,892,323	335,650	274,304	14,146	14,787,801
대전광역시	21,885	127,721	17,362	509,302	940,342	9,938,342	2,956,222	362,730	1,343,925	19,877	16,237,708
울산광역시	637,468	68,041	498,001	42,279,704	2,012,858	45,201,422	2,527,112	970,844	2,635,588	20,096	96,851,134
경기도	771,260	607,405	353,125	4,791,184	7,673,389	113,997,221	18,790,589	5,510,311	8,996,483	123,438	161,614,405
강원도	270,869	60,529	213,597	1,017,896	944,356	16,557,479	2,989,644	1,142,760	186,900	33,579	23,417,610
충청북도	12,064	70,290	174,748	2,641,818	853,997	18,605,402	3,572,903	960,262	6,321,835	12,935	33,226,253
충청남도	1,207,335	89,431	187,213	18,728,515	1,710,295	27,308,708	4,071,558	1,534,440	1,171,630	35,001	56,044,126
전라북도	3,545	87,355	144,081	2,973,711	968,098	18,148,014	4,014,631	833,447	5,252,097	25,206	32,450,185
전라남도	270,570	73,419	447,216	36,655,675	1,919,545	28,944,822	3,797,029	1,455,457	3,533,116	40,602	77,137,452
경상북도	16,453	126,633	407,614	9,435,118	1,745,610	31,078,861	6,051,350	1,682,610	2,310,968	48,906	52,904,124
경상남도	593,782	115,351	135,875	3,460,462	1,803,346	65,089,752	6,562,170	1,609,624	2,929,544	54,686	82,354,593
제주도	182,401	24,384	1,919	455,986	242,382	4,245,690	992,620	254,154	56,886	6,896	6,463,316
수도권 대기관리권역	2,227,145	1,619,632	471,981	18,578,123	12,465,724	191,862,137	41,178,592	11,252,344	12,335,344	204,449	292,195,471
수도권	2,227,145	1,658,140	544,406	18,790,180	13,130,515	206,662,325	43,285,756	11,974,977	12,856,837	227,646	311,357,925
전국	5,870,219	2,910,339	2,940,532	140,356,646	29,752,389	531,281,904	95,403,875	25,206,206	40,379,476	597,129	874,698,716

2.9. 암모니아(NH₃) 배출량

자연오염원제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	자연오염원	농업	기타 면오염원	배출원대분류 합계
서울특별시	27,969	265,308	19,279	8,602	1,706,581	89,803	5,454,697	460,118	2,547,211	10,579,569
부산광역시	98,095	113,719	31,971	5,726	577,695	38,351	2,112,337	504,838	896,860	4,379,592
대구광역시	5,588	51,640	24,152	0	501,980	12,831	1,902,536	1,081,019	614,771	4,194,517
인천광역시	306,418	73,306	42,071	2,581,428	456,369	30,711	1,202,226	1,626,148	661,502	6,980,178
광주광역시		27,313	5,972	68	246,730	6,315	953,397	834,530	353,361	2,427,685
대전광역시	13,643	47,530	7,955	135	311,171	6,389	1,001,039	322,359	368,915	2,079,136
울산광역시	357,842	45,793	162,173	13,709,370	263,461	24,687	936,429	1,335,949	274,999	17,110,702
경기도	305,398	235,868	159,228	248,617	2,493,429	110,127	7,673,137	38,496,871	2,767,789	52,490,464
강원도	6,874	43,681	11,011	120,726	402,412	23,156	773,547	11,371,577	372,689	13,125,673
충청북도	7,533	39,741	40,910	429	433,111	17,038	794,412	13,795,247	376,652	15,505,074
충청남도	95,499	60,297	75,368	5,268,929	525,286	32,382	990,905	35,956,205	496,913	43,501,783
전라북도	135	52,695	73,351	268,387	444,847	17,671	1,288,984	28,940,506	465,569	31,552,145
전라남도	105,867	71,549	72,077	6,770,929	408,969	38,179	886,766	31,186,926	468,966	40,010,228
경상북도	1,851	71,735	130,584	730,716	679,133	33,533	1,300,552	29,604,309	666,534	33,218,948
경상남도	15,813	70,403	59,338	674,350	780,010	36,096	1,272,693	21,118,813	797,711	24,825,226
제주도	50,589	16,099	1,310	14,487	116,329	4,341	167,835	6,215,191	139,815	6,725,996
수도권 대기관리권역	639,785	545,533	179,971	2,811,647	4,294,465	215,863	13,943,736	25,560,309	5,763,868	53,955,178
수도권	639,785	574,482	220,578	2,838,647	4,656,379	230,641	14,330,060	40,583,137	5,976,502	70,050,211
전국	1,399,115	1,286,676	916,751	30,402,900	10,347,513	521,610	28,711,491	222,850,608	12,270,256	308,706,918

3. 2006년 시도별 대분류별 배출량

3.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	479,594	13,870,434	309,007		141,927,259	2,947,375	236,230	159,769,899
부산광역시	2,700,672	2,939,974	588,883	14,437	44,068,415	4,704,092	194,594	55,211,067
대구광역시	130,547	5,714,605	384,297		34,363,778	2,482,052	70,766	43,146,046
인천광역시	8,460,018	764,453	1,226,533	769,450	36,184,956	3,134,172	158,374	50,697,957
광주광역시		2,836,730	109,826	0	12,137,659	1,461,816	101,156	16,647,186
대전광역시	82,295	3,813,451	90,188	26,456	19,946,835	715,207	78,289	24,752,721
울산광역시	3,121,905	421,771	2,567,133	11,761,202	14,124,113	1,743,848	88,598	33,828,571
경기도	4,549,708	8,662,966	1,886,084	77,739	117,200,660	8,777,467	625,577	141,780,201
강원도	576,071	8,973,837	1,035,943		18,235,520	2,403,090	20,791	31,245,252
충청북도	43,296	11,419,878	832,441		21,432,406	2,744,970	82,248	36,555,239
충청남도	10,482,876	5,258,967	944,671	1,597,433	23,433,472	4,451,081	130,821	46,299,320
전라북도	27,005	3,134,786	679,578	62,063	25,812,962	2,500,745	106,940	32,324,078
전라남도	2,103,828	2,308,268	659,221	5,496,958	22,652,207	4,126,299	54,308	37,401,089
경상북도	126,697	15,412,172	1,443,938	1,892,402	36,608,211	5,534,820	102,711	61,120,951
경상남도	4,685,208	2,901,585	1,021,986	3,984	37,892,722	4,915,039	171,207	51,591,731
제주도	1,719,922	87,701	6,551		4,741,243	968,503	42,411	7,566,331
수도권 대기관리권역	12,452,937	22,585,797	3,125,514	783,676	282,393,355	13,590,263	983,541	335,915,083
수도권	13,489,321	23,297,853	3,421,624	847,189	295,312,875	14,859,014	1,020,181	352,248,057
전국	39,289,642	88,521,578	13,786,280	21,702,124	610,762,418	53,610,576	2,265,022	829,937,640

3.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	398,501	20,295,121	991,131		56,039,802	9,161,016	1,007,286	87,892,856
부산광역시	8,972,233	6,644,069	2,335,195	833,860	29,669,318	24,605,888	878,806	73,939,370
대구광역시	2,406,058	4,504,258	2,582,058		21,140,847	8,288,478	403,595	39,325,294
인천광역시	34,681,614	4,496,207	4,424,791	1,655,522	22,796,822	10,766,642	1,341,788	80,163,385
광주광역시		2,252,747	416,608		7,784,709	4,811,811	501,650	15,767,525
대전광역시	728,583	3,671,134	546,960		12,260,337	2,250,453	726,534	20,184,001
울산광역시	22,117,115	2,505,486	16,114,060	5,426,037	10,147,979	10,060,951	870,962	67,242,590
경기도	24,287,847	16,787,029	10,293,970	3,615,125	97,016,206	30,978,491	4,082,902	187,061,570
강원도	16,416,570	3,465,790	20,485,170		17,420,743	8,558,310	102,851	66,449,433
충청북도	383,315	4,268,290	12,577,332		22,575,228	7,968,169	1,295,352	49,067,686
충청남도	137,286,010	3,392,772	4,824,825	2,670,755	25,695,331	15,066,664	881,475	189,817,833
전라북도	775,379	3,116,930	6,215,875	2,668,713	24,478,388	7,767,742	1,668,039	46,691,066
전라남도	18,081,097	3,144,427	4,923,389	24,710,212	24,821,992	18,401,354	694,798	94,777,270
경상북도	3,586,209	5,988,681	9,710,010	14,203,735	36,004,280	17,184,900	1,154,432	87,832,247
경상남도	90,041,720	4,087,300	4,722,821	793,291	38,103,623	17,904,893	1,471,629	157,125,278
제주도	4,147,995	507,015	33,059		4,124,580	2,664,761	154,419	11,631,830
수도권 대기관리권역	50,684,586	40,294,829	14,028,059	2,539,623	160,119,765	46,922,219	6,182,942	320,772,022
수도권	59,367,961	41,578,356	15,709,892	5,270,647	175,852,830	50,906,148	6,431,977	355,117,811
전국	364,310,246	89,127,255	101,197,255	56,577,251	450,080,184	196,440,523	17,236,519	1,274,969,233

3.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	3,228	6,629,165	107,193		212,543	136,712	186,688	7,275,528
부산광역시	752,225	16,773,058	866,680	777,091	90,335	14,943,775	153,067	34,356,230
대구광역시	2,412,723	2,884,126	2,080,367		62,687	110,398	54,434	7,604,736
인천광역시	2,581,043	4,607,242	1,865,479	2,468,076	67,175	4,315,666	115,407	16,020,088
광주광역시		991,344	98,030	323	31,211	64,001	78,912	1,263,821
대전광역시	560,948	1,663,859	247,868	1,308	37,366	35,367	56,123	2,602,838
울산광역시	11,655,656	7,026,898	10,334,348	28,093,648	28,670	6,971,886	62,801	64,173,907
경기도	8,633,964	6,763,094	9,976,606	2,658,453	255,486	3,384,467	473,669	32,145,739
강원도	2,735,502	3,542,631	12,697,158	475,805	43,025	1,740,735	16,223	21,251,080
충청북도	91,941	4,707,942	9,775,002	677,886	48,448	122,764	51,175	15,475,158
충청남도	52,062,341	2,376,692	2,994,146	5,914,590	54,648	2,972,063	98,650	66,473,130
전라북도	917,048	2,529,019	6,604,126	1,737,767	54,383	1,018,253	66,776	12,927,372
전라남도	20,043,215	6,827,490	4,659,787	25,041,302	50,295	10,358,408	36,140	67,016,637
경상북도	4,233,651	5,699,513	9,678,868	15,891,178	75,626	2,641,731	70,686	38,291,253
경상남도	43,663,626	3,742,194	2,935,420	1,200,023	85,404	4,413,570	124,449	56,164,687
제주도	1,915,793	739,639	44,424		15,911	696,215	33,903	3,445,886
수도권 대기관리구역	9,187,799	17,542,779	8,196,668	3,348,188	501,052	7,784,595	748,166	47,309,247
수도권	11,218,234	17,999,501	11,949,278	5,126,528	535,204	7,836,845	775,765	55,441,355
전국	152,262,904	77,503,905	74,965,503	84,937,448	1,213,213	53,926,011	1,679,104	446,488,089

3.4. 총먼지(TSP) 배출량

비산업지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	7,003	418,792	4,023		2,690,208	349,517	26,492	3,496,036
부산광역시	572,504	289,698	474,448	52,188	1,591,754	1,273,568	22,720	4,276,881
대구광역시	190,359	299,609	777,234	388	1,071,620	330,992	9,799	2,680,002
인천광역시	807,545	65,614	303,249	231,046	1,309,795	405,279	29,953	3,152,481
광주광역시		86,194	5,051	92	431,324	188,302	12,631	723,594
대전광역시	5,798	105,092	5,388	495	622,000	102,618	15,964	857,355
울산광역시	480,353	434,346	10,326,440	2,458,645	533,942	548,612	18,958	14,801,296
경기도	641,089	730,630	1,246,589	309,300	5,170,056	1,371,517	96,048	9,565,229
강원도	247,905	210,343	4,743,159	1,344,262	973,137	430,295	2,591	7,951,693
충청북도	9,887	417,036	3,166,494	1,098,634	1,227,132	415,599	26,504	6,361,286
충청남도	5,321,508	166,845	81,475	313,945	1,386,708	810,810	20,592	8,101,884
전라북도	5,135	172,752	954,824	64,085	1,311,942	438,762	34,165	2,981,665
전라남도	279,782	146,149	611,780	4,585,813	1,361,952	1,111,229	14,564	8,111,270
경상북도	200,594	355,257	1,228,545	2,853,786	1,974,689	989,372	24,625	7,626,868
경상남도	3,798,824	165,483	91,485	99,673	2,043,678	927,786	32,766	7,159,695
제주도	52,576	36,117	2,093	65	210,702	106,647	4,273	412,473
수도권 대기관리구역	835,637	1,184,022	1,328,946	471,739	8,318,577	1,936,387	146,687	14,221,994
수도권	1,455,637	1,215,035	1,553,861	540,346	9,170,059	2,126,313	152,494	16,213,745
전국	12,620,864	4,099,956	24,022,278	13,412,417	23,910,639	9,800,907	392,644	88,259,706

3.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원*	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	7,003	418,792	4,023		72,568,487	349,517	26,492	73,374,315
부산광역시	572,504	289,698	474,448	52,188	36,156,770	1,273,568	22,720	38,841,897
대구광역시	190,359	299,609	777,234	388	27,370,480	330,992	9,799	28,978,862
인천광역시	807,545	65,614	303,249	231,046	28,003,423	405,279	29,953	29,846,109
광주광역시		86,194	5,051	92	13,359,549	188,302	12,631	13,651,819
대전광역시	5,798	105,092	5,388	495	15,555,630	102,618	15,964	15,790,985
울산광역시	480,353	434,346	10,326,440	2,458,645	13,593,853	548,612	18,958	27,861,207
경기도	641,089	730,630	1,246,589	309,300	136,362,661	1,371,517	96,048	140,757,834
강원도	247,905	210,343	4,743,159	1,344,262	23,936,500	430,295	2,591	30,915,056
충청북도	9,887	417,036	3,166,494	1,098,634	28,929,379	415,599	26,504	34,063,533
충청남도	5,321,508	166,845	81,475	313,945	34,280,778	810,810	20,592	40,995,954
전라북도	5,135	172,752	954,824	64,085	30,375,662	438,762	34,165	32,045,384
전라남도	279,782	146,149	611,780	4,585,813	31,103,083	1,111,229	14,564	37,852,402
경상북도	200,594	355,257	1,228,545	2,853,786	46,420,885	989,372	24,625	52,073,064
경상남도	3,798,824	165,483	91,485	99,673	49,844,461	927,786	32,766	54,960,478
제주도	52,576	36,117	2,093	65	7,177,099	106,647	4,273	7,378,870
수도권 대기관리권역	835,637	1,184,022	1,328,946	471,739	214,717,586	1,936,387	146,687	220,621,004
수도권	1,455,637	1,215,035	1,553,861	540,346	236,934,571	2,126,313	152,494	243,978,258
전국	12,620,864	4,099,956	24,022,278	13,412,417	595,038,701	9,800,907	392,644	659,387,767

* 도로재비산 먼지의 silt loading 값 조정 후(0.36g/㎡ → 0.077g/㎡으로 조정, 2005년)

3.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	7,003	363,265	3,852		2,690,208	349,482	19,180	3,432,990
부산광역시	359,217	262,055	285,612	38,845	1,591,754	931,758	16,450	3,485,691
대구광역시	111,142	261,735	463,883	234	1,071,620	330,986	7,095	2,246,695
인천광역시	541,598	62,009	189,074	132,651	1,309,795	308,896	21,686	2,565,709
광주광역시		72,716	4,684	56	431,324	188,295	9,145	706,219
대전광역시	3,433	88,020	4,960	301	622,000	102,618	11,558	832,889
울산광역시	362,107	398,927	6,050,272	1,177,124	533,942	388,631	13,725	8,924,729
경기도	475,149	659,569	789,933	194,297	5,170,056	1,301,943	69,539	8,660,486
강원도	144,314	169,115	2,764,101	50,731	973,137	392,230	1,876	4,495,505
충청북도	5,853	352,184	1,861,598	72,211	1,227,132	415,595	19,189	3,953,762
충청남도	3,132,637	140,449	75,182	167,151	1,386,708	746,241	14,908	5,663,276
전라북도	2,988	151,845	597,533	53,044	1,311,942	417,463	24,735	2,559,550
전라남도	187,744	129,610	385,279	2,618,417	1,361,952	874,648	10,544	5,568,193
경상북도	117,171	285,602	786,151	1,791,832	1,974,689	933,363	17,828	5,906,635
경상남도	2,213,374	146,780	84,870	72,785	2,043,678	830,038	23,723	5,415,249
제주도	36,841	33,247	1,920	39	210,702	91,472	3,094	377,314
수도권 대기관리권역	662,908	1,057,357	838,200	270,838	8,318,577	1,770,394	106,201	13,024,475
수도권	1,023,749	1,084,843	982,859	326,948	9,170,059	1,960,320	110,405	14,659,184
전국	7,700,570	3,577,128	14,348,903	6,369,718	23,910,639	8,603,659	284,275	64,794,891

3.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원*	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	7,003	363,265	3,852		15,075,356	349,482	19,180	15,818,137
부산광역시	359,217	262,055	285,612	38,845	7,770,366	931,758	16,450	9,664,303
대구광역시	111,142	261,735	463,883	234	5,765,368	330,986	7,095	6,940,443
인천광역시	541,598	62,009	189,074	132,651	6,075,185	308,896	21,686	7,331,099
광주광역시		72,716	4,684	56	2,736,466	188,295	9,145	3,011,361
대전광역시	3,433	88,020	4,960	301	3,278,398	102,618	11,558	3,489,286
울산광역시	362,107	398,927	6,050,272	1,177,124	2,859,972	388,631	13,725	11,250,759
경기도	475,149	659,569	789,933	194,297	28,578,423	1,301,943	69,539	32,068,853
강원도	144,314	169,115	2,764,101	50,731	5,080,400	392,230	1,876	8,602,768
충청북도	5,853	352,184	1,861,598	72,211	6,193,026	415,595	19,189	8,919,656
충청남도	3,132,637	140,449	75,182	167,151	7,285,316	746,241	14,908	11,561,884
전라북도	2,988	151,845	597,533	53,044	6,526,057	417,463	24,735	7,773,665
전라남도	187,744	129,610	385,279	2,618,417	6,712,721	874,648	10,544	10,918,963
경상북도	117,171	285,602	786,151	1,791,832	9,954,869	933,363	17,828	13,886,816
경상남도	2,213,374	146,780	84,870	72,785	10,606,788	830,038	23,723	13,978,358
제주도	36,841	33,247	1,920	39	1,459,367	91,472	3,094	1,625,979
수도권 대기관리권역	662,908	1,057,357	838,200	270,838	45,044,645	1,770,394	106,201	49,750,543
수도권	1,023,749	1,084,843	982,859	326,948	49,728,964	1,960,320	110,405	55,218,089
전국	7,700,570	3,577,128	14,348,903	6,369,718	125,958,080	8,578,971	284,275	166,817,644

* 도로재비산 먼지의 silt loading 값 조정 후(0.36g/㎡ → 0.077g/㎡으로 조정, 2005년)

3.8. 휘발성유기화합물(VOC) 배출량

자연오염원제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	에너지수송 및 저장	유기용제 사용	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	64,767	897,179	46,214		3,346,763	39,260,600	22,878,711	1,072,332	575,290	68,141,857
부산광역시	365,579	219,505	86,517	1,366,189	1,543,501	25,409,603	7,281,386	1,786,769	782,499	38,841,547
대구광역시	21,630	143,350	62,540	1,760,602	929,746	20,363,424	5,745,878	988,454	676,303	30,691,927
인천광역시	1,138,614	184,906	173,870	15,206,769	1,453,755	27,359,478	6,203,605	770,253	2,789,887	55,281,136
광주광역시		78,837	16,247	27,372	591,408	11,710,478	1,912,654	566,240	591,474	15,494,710
대전광역시	21,122	125,488	16,463	800,437	798,192	6,692,257	3,299,618	290,719	1,681,368	13,725,663
울산광역시	616,609	84,404	458,160	37,922,794	1,965,061	37,361,870	2,474,616	670,417	2,128,890	83,682,821
경기도	706,462	651,320	316,416	4,505,035	6,602,927	113,637,273	19,298,811	3,457,315	6,822,292	155,997,851
강원도	262,177	56,838	139,271	1,055,957	821,949	11,223,092	3,013,100	908,888	315,624	17,796,897
충청북도	11,113	83,984	134,515	2,574,854	707,873	15,567,668	3,719,389	1,031,393	3,731,852	27,562,641
충청남도	1,442,663	83,332	160,169	19,197,790	1,532,103	24,925,498	4,045,549	1,661,834	1,658,261	54,707,198
전라북도	3,261	89,177	141,757	3,365,800	959,506	13,027,279	4,389,453	892,336	4,829,821	27,698,389
전라남도	322,707	72,835	118,939	39,106,257	1,678,382	23,205,676	4,062,789	1,465,437	1,982,989	72,016,011
경상북도	16,139	128,622	268,445	6,757,926	1,470,066	30,822,518	6,281,348	2,016,929	3,058,439	50,820,432
경상남도	568,406	131,122	157,096	3,063,714	1,522,232	59,519,468	6,660,142	1,849,306	3,302,095	76,773,582
제주도	202,098	15,540	1,396	411,193	200,663	3,133,187	705,870	229,417	26,313	4,925,677
수도권 대기관리권역	1,785,690	1,696,375	481,652	19,510,677	10,807,771	168,713,566	46,137,272	4,830,705	9,711,260	263,674,970
수도권	1,909,842	1,733,405	536,500	19,711,804	11,403,445	180,257,351	48,381,127	5,299,899	10,187,469	279,420,844
전국	5,763,346	3,046,439	2,298,014	137,122,689	26,124,128	463,219,369	101,972,922	19,658,038	34,953,396	794,158,339

3.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	기타연오염원	농업	배출원대분류 합계
서울특별시	16,461	268,749	13,427	7,497	1,878,183	26,324	2,951,531	89,800	5,408,871
부산광역시	88,207	119,559	31,398	2,633	645,384	53,167	1,024,641	440,675	2,378,602
대구광역시	7,192	65,002	26,183	0	552,424	25,194	703,344	858,906	2,258,534
인천광역시	255,945	75,741	58,708	2,189,532	477,267	18,466	867,001	1,487,751	6,468,694
광주광역시		30,945	6,104	131	269,870	14,637	419,706	738,834	1,486,108
대전광역시	13,167	49,381	7,992		346,355	6,333	434,754	272,532	1,130,415
울산광역시	354,123	51,214	171,466	13,933,644	290,927	20,838	338,315	1,078,968	25,506,859
경기도	288,955	268,798	151,121	356,406	2,593,170	91,094	4,010,226	30,770,167	38,435,640
강원도	7,816	46,774	10,328	119,683	403,353	23,672	734,443	8,584,131	9,966,918
충청북도	6,927	50,257	36,520	242	446,320	22,493	805,796	11,109,801	12,486,362
충청남도	190,340	63,337	70,575	4,710,030	534,784	40,882	1,108,352	26,520,431	33,232,407
전라북도	73	59,322	77,078	58	461,042	22,033	1,077,244	19,514,194	22,102,078
전라남도	113,673	79,813	58,442	9,502,110	422,917	41,331	976,929	24,177,793	37,007,725
경상북도	1,923	77,615	131,581	547,041	714,594	46,679	1,094,250	23,652,538	26,432,203
경상남도	16,831	81,898	71,973	465,237	832,013	48,670	1,210,020	15,711,769	18,465,492
제주도	41,993	12,204	1,039	24,993	115,907	5,615	216,447	3,952,110	4,382,180
수도권 대기관리권역	559,715	582,491	190,856	1,897,815	4,599,553	123,398	7,319,749	25,032,722	42,066,054
수도권	561,361	613,288	223,256	2,553,435	4,948,620	135,883	7,828,758	32,347,718	50,313,205
전국	1,403,625	1,400,609	923,935	31,859,238	10,984,512	507,428	17,972,998	168,960,401	247,149,087

4. 2005년 시도별 대분류별 배출량

4.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	580,415	13,227,774	458,146	13	140,202,026	7,192,814	212,270	161,873,459
부산광역시	2,338,643	2,679,363	577,630	13,544	41,818,925	3,631,927	142,489	51,202,521
대구광역시	134,573	4,652,024	467,189		30,370,042	2,552,162	75,021	38,251,011
인천광역시	7,201,813	757,608	904,982	698,979	32,509,947	3,048,616	96,035	45,217,979
광주광역시		2,486,717	138,734		12,905,097	828,107	54,212	16,412,867
대전광역시	82,279	2,845,444	92,365		19,689,072	898,328	66,602	23,674,090
울산광역시	3,090,424	508,809	2,226,189	13,150,821	12,218,624	1,304,029	92,485	32,591,380
경기도	4,792,545	9,624,048	2,395,716	51,874	111,785,450	8,858,110	608,648	138,116,391
강원도	567,225	8,012,192	1,064,057	1,957	17,436,936	2,019,550	19,044	29,120,961
충청북도	44,127	9,898,879	869,972		20,684,161	2,364,965	70,165	33,932,270
충청남도	9,395,879	4,125,187	916,406	1,457,000	21,565,168	3,338,401	105,855	40,903,896
전라북도	25,930	2,779,501	744,642	86,211	24,290,626	1,711,035	76,681	29,714,627
전라남도	1,351,888	2,313,724	924,682	5,460,721	21,810,960	3,335,684	76,814	35,274,474
경상북도	151,289	13,144,683	1,705,468	1,957,711	34,269,654	3,893,491	65,184	55,187,481
경상남도	4,684,034	2,541,546	844,373	3,068	36,230,864	3,723,002	152,851	48,179,739
제주도	1,448,339	161,135	11,093		6,696,961	912,874	33,672	9,264,074
수도권 대기관리권역	12,574,773	22,795,334	3,446,059	703,219	272,873,710	18,102,261	903,535	331,398,891
수도권	12,574,773	23,609,430	3,758,844	750,866	284,497,422	19,099,540	916,953	345,207,829
전국	35,889,403	79,758,633	14,341,646	22,881,899	584,484,514	49,613,094	1,948,028	788,917,218

4.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	1,061,801	20,743,501	1,346,350	569	59,332,906	23,936,837	835,481	107,257,446
부산광역시	7,849,098	5,491,149	2,361,361	704,079	31,065,679	20,588,770	683,151	68,743,289
대구광역시	2,495,539	4,537,706	3,056,701		22,528,684	8,544,868	388,223	41,551,721
인천광역시	31,106,456	4,237,655	4,099,396	2,695,410	22,377,291	10,773,280	600,981	75,890,470
광주광역시		2,336,961	557,053		9,337,163	2,604,547	238,724	15,074,448
대전광역시	728,445	3,097,556	521,658		13,585,336	2,858,408	604,442	21,395,845
울산광역시	21,153,710	2,857,796	14,974,117	4,457,821	10,380,127	8,495,820	885,404	63,204,794
경기도	29,261,563	18,365,229	13,165,609	2,233,539	96,395,140	31,438,034	4,015,888	194,875,001
강원도	15,317,819	4,029,614	20,763,724	84,147	17,331,115	7,410,469	141,138	65,078,027
충청북도	390,168	4,335,494	13,195,376		22,708,474	6,918,092	1,149,499	48,697,102
충청남도	160,182,811	4,131,464	4,799,140	2,471,750	23,627,343	11,781,877	795,981	207,790,365
전라북도	760,497	3,350,293	7,091,516	3,707,082	23,566,240	5,538,346	1,397,734	45,411,708
전라남도	14,236,909	4,268,864	5,502,466	24,467,610	24,674,710	18,295,050	1,224,414	92,670,023
경상북도	2,002,992	6,379,148	12,163,462	14,126,331	35,735,350	12,622,330	702,994	83,732,606
경상남도	100,567,023	4,615,744	4,541,010	378,591	37,587,676	14,335,440	1,022,077	163,047,561
제주도	3,779,712	880,174	46,843		4,983,285	2,488,928	124,848	12,303,790
수도권 대기관리권역	61,429,820	41,856,903	16,538,875	2,880,693	163,429,778	62,985,326	5,282,327	354,403,721
수도권	61,429,820	43,346,385	18,611,355	4,929,518	178,105,337	66,148,151	5,452,350	378,022,917
전국	390,894,542	93,658,348	108,185,782	55,326,930	455,216,520	188,631,095	14,810,979	1,306,724,197

4.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	265,452	6,614,371	34,663	370	717,209	249,388	168,773	8,050,226
부산광역시	757,144	5,628,382	850,172	592,189	349,544	13,940,859	111,501	22,229,790
대구광역시	2,459,686	2,169,838	1,792,953		246,852	87,209	58,288	6,814,825
인천광역시	2,232,749	1,332,999	1,798,468	3,575,420	258,681	4,175,724	73,093	13,447,134
광주광역시		811,168	81,347	4,245	106,227	29,079	42,732	1,074,798
대전광역시	315,719	927,353	120,552		143,491	36,909	47,945	1,591,969
울산광역시	7,764,131	8,561,377	8,899,277	27,165,787	112,545	6,628,509	65,903	59,197,528
경기도	8,101,599	9,301,056	8,821,010	1,453,770	1,163,075	3,185,906	460,214	32,486,630
강원도	2,878,867	2,957,637	12,658,264	379,187	195,271	1,611,753	14,173	20,695,152
충청북도	65,938	3,971,291	9,712,968	777,195	251,490	99,282	43,007	14,921,171
충청남도	47,074,075	1,724,467	2,655,555	5,843,334	261,443	2,711,797	78,612	60,349,283
전라북도	902,408	2,028,913	5,563,474	2,413,914	247,728	962,491	44,930	12,163,858
전라남도	19,987,278	5,150,384	3,560,507	23,653,374	266,266	12,682,165	47,580	65,347,555
경상북도	4,443,312	4,756,070	9,073,063	15,990,629	391,421	2,386,888	45,294	37,086,677
경상남도	40,783,213	2,324,694	2,514,671	521,814	416,877	4,039,805	115,376	50,716,451
제주도	1,032,142	445,881	44,317		61,834	678,090	26,885	2,289,148
수도권 대기관리구역	10,599,800	16,843,956	7,664,215	3,695,442	1,970,555	7,577,663	693,127	49,044,757
수도권	10,599,800	17,248,426	10,654,141	5,029,560	2,138,965	7,611,018	702,080	53,983,990
전국	139,063,714	58,705,881	68,181,261	82,371,228	5,189,953	53,505,854	1,444,304	408,462,195

4.4. 총먼지(TSP) 배출량

비산업지체외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	17,555	521,284	3,969	13	3,009,119	912,696	22,531	4,487,166
부산광역시	569,129	160,198	208,762	36,235	1,748,404	1,107,294	17,362	3,847,384
대구광역시	187,481	303,702	720,030	259	1,201,511	337,166	9,663	2,759,813
인천광역시	734,332	46,271	330,309	422,901	1,313,975	407,962	14,273	3,270,021
광주광역시		79,425	4,899	246	537,975	102,572	6,218	731,335
대전광역시	4,666	77,285	5,113	368	716,114	127,448	13,331	944,326
울산광역시	441,100	455,189	10,359,178	2,818,313	576,016	482,502	19,354	15,151,652
경기도	647,419	1,104,870	1,311,907	211,278	5,443,158	1,365,359	94,244	10,178,235
강원도	326,782	214,623	4,960,702	1,220,320	1,007,853	364,323	3,232	8,097,835
충청북도	7,936	408,793	2,975,499	1,012,332	1,281,442	349,785	23,423	6,059,209
충청남도	4,717,317	177,323	90,142	357,640	1,330,249	624,586	18,175	7,315,432
전라북도	5,053	175,210	970,222	117,384	1,315,237	307,878	28,187	2,919,171
전라남도	378,460	208,980	603,982	4,429,970	1,404,912	1,089,848	25,021	8,141,174
경상북도	205,165	345,836	1,290,224	2,932,721	2,047,866	705,744	15,085	7,542,641
경상남도	3,794,177	178,693	82,538	46,816	2,090,172	725,838	23,916	6,942,149
제주도	43,355	85,710	1,717		288,448	98,778	3,434	521,440
수도권 대기관리구역	1,399,306	1,633,097	1,402,323	582,547	8,929,236	2,539,040	127,480	16,613,030
수도권	1,399,306	1,672,424	1,646,184	634,193	9,766,251	2,686,016	131,049	17,935,423
전국	12,079,929	4,543,391	23,919,189	13,606,797	25,312,451	9,109,777	337,451	88,908,984

4.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원*	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	17,555	521,284	3,969	13	78,830,907	912,696	22,531	80,308,954
부산광역시	569,129	160,198	208,762	36,235	36,724,256	1,107,294	17,362	38,823,236
대구광역시	187,481	303,702	720,030	259	29,238,795	337,166	9,663	30,797,097
인천광역시	734,332	46,271	330,309	422,901	27,858,649	407,962	14,273	29,814,695
광주광역시		79,425	4,899	246	14,252,427	102,572	6,218	14,445,788
대전광역시	4,666	77,285	5,113	368	16,445,186	127,448	13,331	16,673,397
울산광역시	441,100	455,189	10,359,178	2,818,313	13,645,576	482,502	19,354	28,221,212
경기도	647,419	1,104,870	1,311,907	211,278	137,229,818	1,365,359	94,244	141,964,895
강원도	326,782	214,623	4,960,702	1,220,320	24,070,591	364,323	3,232	31,160,574
충청북도	7,936	408,793	2,975,499	1,012,332	28,203,798	349,785	23,423	32,981,565
충청남도	4,717,317	177,323	90,142	357,640	32,293,505	624,586	18,175	38,278,688
전라북도	5,053	175,210	970,222	117,384	28,802,812	307,878	28,187	30,406,746
전라남도	378,460	208,980	603,982	4,429,970	30,782,268	1,089,848	25,021	37,518,529
경상북도	205,165	345,836	1,290,224	2,932,721	45,766,408	705,744	15,085	51,261,183
경상남도	3,794,177	178,693	82,538	46,816	47,753,966	725,838	23,916	52,605,943
제주도	43,355	85,710	1,717		7,773,625	98,778	3,434	8,006,618
수도권 대기관리구역	1,399,306	1,633,097	1,402,323	582,547	222,726,125	2,539,040	127,480	230,409,919
수도권	1,399,306	1,672,424	1,646,184	634,193	243,919,373	2,686,016	131,049	252,088,545
전국	12,079,929	4,543,391	23,919,189	13,606,797	599,672,588	9,109,777	337,451	663,269,121

* 도로재비산 먼지의 silt loading 값 조정 후(0.36g/㎡ → 0.077g/㎡으로 조정, 2005년)

4.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	14,387	366,611	3,437	13	3,009,119	912,656	4,281	4,310,503
부산광역시	397,586	106,234	141,694	32,531	1,748,404	776,214	3,299	3,205,962
대구광역시	124,857	196,426	480,805	158	1,201,511	337,160	1,836	2,342,754
인천광역시	534,474	36,266	221,864	307,378	1,313,975	311,196	2,712	2,727,864
광주광역시		53,974	3,313	150	537,975	102,564	1,181	699,157
대전광역시	2,895	53,761	3,251	225	716,114	127,448	2,533	906,226
울산광역시	312,634	284,381	6,939,854	1,474,750	576,016	324,658	3,677	9,915,971
경기도	469,700	716,363	871,782	130,094	5,443,158	1,296,300	17,906	8,945,303
강원도	218,969	141,377	3,323,101	31,978	1,007,853	327,373	614	5,051,265
충청북도	4,922	263,781	1,991,702	71,923	1,281,442	349,781	4,450	3,968,003
충청남도	3,180,976	115,516	58,644	217,941	1,330,249	562,616	3,453	5,469,395
전라북도	3,385	113,095	644,542	94,727	1,315,237	286,342	5,355	2,462,684
전라남도	255,637	132,365	404,978	2,674,434	1,404,912	788,555	4,754	5,665,635
경상북도	137,538	229,012	857,079	1,810,503	2,047,866	652,192	2,866	5,737,057
경상남도	2,542,559	115,789	52,971	41,270	2,090,172	632,016	4,544	5,479,320
제주도	28,780	53,202	1,073		288,448	83,369	652	455,523
수도권 대기관리구역	1,018,560	1,093,220	935,820	389,780	8,929,236	2,373,175	24,221	14,764,014
수도권	1,018,560	1,119,241	1,097,083	437,484	9,766,251	2,520,152	24,899	15,983,670
전국	8,229,298	2,978,153	16,000,090	6,888,075	25,312,451	7,870,441	64,116	67,342,622

4.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원*	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	14,387	366,611	3,437	13	16,481,508	912,656	4,281	17,782,892
부산광역시	397,586	106,234	141,694	32,531	8,015,574	776,214	3,299	9,473,132
대구광역시	124,857	196,426	480,805	158	6,216,330	337,160	1,836	7,357,572
인천광역시	534,474	36,266	221,864	307,378	6,060,336	311,196	2,712	7,474,224
광주광역시		53,974	3,313	150	2,989,437	102,564	1,181	3,150,619
대전광역시	2,895	53,761	3,251	225	3,520,863	127,448	2,533	3,710,975
울산광역시	312,634	284,381	6,939,854	1,474,750	2,908,307	324,658	3,677	12,248,262
경기도	469,700	716,363	871,782	130,094	28,978,129	1,296,300	17,906	32,480,275
강원도	218,969	141,377	3,323,101	31,978	5,133,162	327,373	614	9,176,574
충청북도	4,922	263,781	1,991,702	71,923	6,106,929	349,781	4,450	8,793,490
충청남도	3,180,976	115,516	58,644	217,941	6,883,547	562,616	3,453	11,022,693
전라북도	3,385	113,095	644,542	94,727	6,243,730	286,342	5,355	7,391,177
전라남도	255,637	132,365	404,978	2,674,434	6,689,878	788,555	4,754	10,950,601
경상북도	137,538	229,012	857,079	1,810,503	9,900,050	652,192	2,866	13,589,241
경상남도	2,542,559	115,789	52,971	41,270	10,275,367	632,016	4,544	13,664,515
제주도	28,780	53,202	1,073		1,631,330	83,369	652	1,798,406
수도권 대기관리구역	1,018,560	1,093,220	935,820	389,780	47,031,417	2,373,175	24,221	52,866,195
수도권	1,018,560	1,119,241	1,097,083	437,484	51,519,973	2,520,152	24,899	57,737,391
전국	8,229,298	2,978,153	16,000,090	6,888,075	128,034,476	7,870,441	64,116	170,064,648

* 도로재비산 먼지의 silt loading 값 조정 후(0.36g/㎡ → 0.077g/㎡으로 조정, 2005년)

4.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	에너지수송 및 저장	유기용제 사용	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	86,576	873,652	65,356	81	3,364,232	45,876,559	22,622,775	2,814,986	265,722	75,969,938
부산광역시	316,527	173,037	86,135	1,036,716	1,540,846	22,028,716	7,361,004	1,347,979	749,324	34,640,284
대구광역시	22,753	142,974	77,958	1,922,341	958,086	21,414,488	5,408,024	1,017,470	506,265	31,470,359
인천광역시	969,839	177,115	137,867	15,450,623	1,383,820	24,801,084	5,984,469	778,819	2,351,390	52,035,025
광주광역시		78,776	18,655	120,781	610,904	9,587,237	2,235,649	307,486	269,580	13,229,070
대전광역시	21,118	110,551	16,161	760,319	787,166	6,838,495	3,449,282	366,252	1,389,006	13,738,351
울산광역시	598,356	86,249	405,315	39,710,047	1,882,530	35,194,037	2,307,770	491,406	2,152,151	82,827,860
경기도	744,018	681,291	409,204	4,316,975	6,544,078	100,121,633	19,369,759	3,516,221	6,855,302	142,558,481
강원도	258,889	70,082	146,042	1,207,474	846,212	10,371,573	3,084,857	773,524	449,991	17,208,643
충청북도	11,308	83,642	140,015	2,339,834	701,911	14,903,637	3,818,661	905,090	3,328,863	26,232,962
충청남도	1,311,073	96,632	156,986	17,007,335	1,518,687	22,134,161	3,953,446	1,261,030	1,681,324	49,120,673
전라북도	3,122	88,880	158,420	3,278,773	974,279	11,062,284	4,344,230	613,195	4,249,237	24,772,419
전라남도	219,715	87,541	147,498	37,600,648	1,617,692	20,274,158	4,081,681	1,208,504	3,646,451	68,883,888
경상북도	21,011	133,126	322,012	7,033,283	1,460,165	28,285,891	6,336,916	1,439,352	1,885,004	46,916,759
경상남도	568,545	132,785	135,974	2,286,327	1,513,701	56,725,366	6,746,079	1,414,422	1,899,699	71,422,898
제주도	173,151	24,391	1,915	421,747	229,120	3,208,365	1,093,242	205,704	36,173	5,393,807
수도권 대기관리구역	1,800,432	1,691,971	549,472	19,635,246	10,772,991	160,342,120	45,827,009	6,740,133	9,007,220	256,366,594
수도권	1,800,432	1,732,057	612,426	19,767,679	11,292,131	170,799,276	47,977,003	7,110,026	9,472,415	270,563,444
전국	5,325,999	3,040,723	2,425,513	134,493,303	25,933,430	432,827,683	102,197,844	18,461,439	31,715,483	756,421,418

4.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	자연오염원	농업	배출원대분류 합계
서울특별시	28,834	285,715	18,416	45,922	1,916,448	72,206	2,951,531	89,800	5,408,871
부산광역시	76,289	116,641	33,190	9,056	636,933	41,177	1,024,641	440,675	2,378,602
대구광역시	7,844	75,609	35,209		551,555	26,067	703,344	858,906	2,258,534
인천광역시	217,698	74,323	53,572	3,278,810	470,493	19,047	867,001	1,487,751	6,468,694
광주광역시		38,072	10,505	123	271,132	7,735	419,706	738,834	1,486,108
대전광역시	13,165	46,961	7,818	30	347,021	8,133	434,754	272,532	1,130,415
울산광역시	334,229	66,263	161,679	23,235,736	275,558	16,111	338,315	1,078,968	25,506,859
경기도	308,195	308,486	194,216	172,984	2,578,916	92,450	4,010,226	30,770,167	38,435,640
강원도	9,755	69,684	16,890	114,232	417,739	20,045	734,443	8,584,131	9,966,918
충청북도	7,060	64,324	41,681	27	438,663	19,009	805,796	11,109,801	12,486,362
충청남도	181,970	101,463	71,110	4,702,010	516,200	30,871	1,108,352	26,520,431	33,232,407
전라북도	50	77,785	92,167	862,297	463,357	14,984	1,077,244	19,514,194	22,102,078
전라남도	87,430	129,077	69,813	11,097,549	432,185	36,950	976,929	24,177,793	37,007,725
경상북도	5,433	113,283	166,299	652,335	715,227	32,837	1,094,250	23,652,538	26,432,203
경상남도	17,390	113,816	73,711	514,966	785,849	37,971	1,210,020	15,711,769	18,465,492
제주도	39,735	24,047	1,456	14,829	128,543	5,014	216,447	3,952,110	4,382,180
수도권 대기관리권역	554,727	631,158	230,717	3,497,716	4,625,472	173,793	7,319,749	25,032,722	42,066,054
수도권	554,727	668,524	266,203	3,497,716	4,965,857	183,703	7,828,758	32,347,718	50,313,205
전국	1,335,077	1,705,547	1,047,730	44,700,904	10,945,820	480,609	17,972,998	168,960,401	247,149,087

5. 2004년 시도별 대분류별 배출량

5.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	524,276	10,020,481	222,093		145,525,012	4,688,887	173,224	161,153,974
부산광역시	2,362,989	2,512,269	1,943,344	16,516	39,639,866	3,561,517	150,875	50,187,377
대구광역시	149,657	3,020,650	313,622		35,361,665	2,091,066	75,958	41,012,618
인천광역시	5,988,974	784,202	657,012	522,446	36,344,331	4,289,730	106,973	48,693,667
광주광역시		1,902,077	160,974		15,314,050	931,696	54,034	18,362,831
대전광역시	93,063	1,981,706	57,131		18,794,262	1,329,949	43,175	22,299,285
울산광역시	2,714,909	521,139	1,966,845	10,946,392	13,217,443	1,549,464	133,041	31,049,233
경기도	4,364,342	7,124,688	1,545,414	65,479	123,724,150	9,897,405	614,096	147,335,574
강원도	574,915	6,388,161	1,362,094		21,228,534	2,238,079	49,795	31,841,578
충청북도	36,532	6,985,652	745,602		25,233,063	2,736,656	94,805	35,832,309
충청남도	8,659,534	2,891,614	1,481,530	1,328,687	25,128,800	4,490,738	106,311	44,087,214
전라북도	25,885	2,450,065	635,869	92,954	27,403,928	1,793,823	144,457	32,546,980
전라남도	1,235,188	1,988,293	696,058	4,940,136	25,445,285	3,464,724	72,299	37,841,984
경상북도	138,149	9,255,192	1,399,342	2,161,117	38,718,484	3,955,974	67,388	55,695,646
경상남도	4,655,510	2,004,695	668,150	3,444	38,920,952	3,378,336	169,454	49,800,539
제주도	997,967	219,608	11,702		6,938,132	1,016,634	29,381	9,213,425
수도권 대기관리권역	10,877,592	17,272,057	2,234,197	536,865	291,807,109	17,773,220	882,475	341,383,516
수도권	10,877,592	17,929,371	2,424,519	587,925	305,593,493	18,876,022	894,293	357,183,216
전국	32,521,890	60,050,492	13,866,781	20,077,171	636,937,957	51,414,678	2,085,267	816,954,235

5.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	1,011,831	20,036,862	712,319		65,625,201	14,940,575	1,222,432	103,549,221
부산광역시	7,878,904	6,522,299	6,082,636	1,256,023	30,540,248	20,301,587	904,451	73,486,147
대구광역시	2,539,914	4,154,882	2,310,534		25,222,305	6,845,646	372,518	41,445,800
인천광역시	20,650,021	4,231,868	3,354,090	2,168,141	24,405,790	14,803,987	765,662	70,379,559
광주광역시		2,171,101	790,238		10,919,235	2,931,104	242,634	17,054,312
대전광역시	823,920	1,718,964	518,053		14,684,579	4,259,747	491,460	22,496,723
울산광역시	20,611,241	3,037,565	14,349,389	4,478,553	11,000,620	9,367,575	1,667,520	64,512,462
경기도	26,424,610	18,246,905	9,999,872	2,815,592	104,154,728	34,811,884	4,624,751	201,078,341
강원도	15,099,811	3,955,793	26,488,328		19,122,995	8,181,836	756,463	73,605,225
충청북도	323,012	3,807,534	12,428,102		25,831,489	8,123,737	1,633,305	52,147,180
충청남도	178,994,019	3,805,624	7,344,538	2,156,956	26,110,847	15,632,877	912,854	234,957,716
전라북도	761,835	3,389,148	6,619,412	3,997,007	25,744,077	5,786,716	2,801,156	49,099,350
전라남도	22,336,193	4,475,650	4,875,420	22,515,911	26,460,813	16,703,547	1,117,653	98,485,186
경상북도	1,465,551	5,678,289	10,171,609	13,166,745	36,497,379	12,636,544	731,803	80,347,919
경상남도	119,498,889	4,572,329	4,377,434	589,606	38,966,990	12,858,564	1,427,762	182,291,574
제주도	3,441,086	975,800	48,214		5,193,823	2,821,988	107,944	12,588,856
수도권 대기관리권역	48,086,462	40,861,888	12,296,922	2,788,122	178,493,096	61,032,424	6,439,057	349,997,971
수도권	48,086,462	42,515,635	14,066,281	4,983,733	194,185,719	64,556,446	6,612,845	375,007,120
전국	421,860,837	90,780,614	110,470,187	53,144,534	490,481,116	191,007,914	19,780,368	1,377,525,570

5.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	251,901	4,882,708	90,347		900,713	206,911	129,816	6,462,396
부산광역시	696,071	5,442,917	987,386	1,425,878	416,949	13,469,168	115,413	22,553,782
대구광역시	2,457,664	1,806,210	970,510	4,037	323,667	89,789	59,317	5,711,193
인천광역시	538,979	1,181,168	1,804,567	2,439,825	336,754	3,985,693	80,009	10,366,994
광주광역시		636,039	399,568	4,114	142,404	40,199	42,523	1,264,848
대전광역시	348,227	626,228	163,974	5,075	186,687	62,817	29,622	1,422,630
울산광역시	8,791,792	9,722,145	7,784,491	26,217,364	143,351	6,481,900	89,039	59,230,083
경기도	8,024,805	9,172,988	7,256,749	1,897,923	1,471,984	3,106,403	455,950	31,386,803
강원도	3,000,877	2,557,693	13,669,672	304,716	254,043	1,745,988	31,389	21,564,379
충청북도	73,532	3,200,562	8,707,767	757,977	338,728	129,575	56,936	13,265,076
충청남도	49,746,297	1,344,251	3,627,630	5,210,686	343,284	2,586,562	77,291	62,936,002
전라북도	903,432	2,094,033	5,676,362	2,629,383	321,827	926,023	82,184	12,633,245
전라남도	20,194,426	5,975,133	3,980,647	18,163,136	343,442	9,321,859	45,292	58,023,936
경상북도	4,297,904	3,581,967	7,856,273	15,262,215	481,466	2,264,667	46,751	33,791,243
경상남도	94,039,482	2,131,030	2,661,797	887,898	519,344	3,595,694	123,596	103,958,842
제주도	943,488	441,946	43,120	269	75,657	704,720	23,473	2,232,673
수도권 대기관리권역	8,815,685	14,820,272	6,567,438	2,906,933	2,496,239	7,253,534	658,241	43,518,342
수도권	8,815,685	15,236,864	9,151,663	4,337,748	2,709,451	7,299,007	665,775	48,216,194
전국	194,308,877	54,797,020	65,680,860	75,210,496	6,600,300	48,717,970	1,488,602	446,804,125

5.4. 총먼지(TSP) 배출량

비산업지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	16,102	458,907	4,163		3,507,842	570,088	28,277	4,585,378
부산광역시	130,694	177,190	117,703	104,701	1,820,324	1,096,507	21,697	3,468,816
대구광역시	194,208	267,824	246,246	380	1,415,220	271,320	9,408	2,404,605
인천광역시	228,749	49,292	267,782	330,716	1,541,886	547,197	17,659	2,983,281
광주광역시		74,953	10,232	129	654,894	114,703	6,283	861,194
대전광역시	5,237	57,428	7,326	243	818,136	186,404	10,464	1,085,239
울산광역시	537,062	539,887	8,607,586	2,380,680	647,700	517,886	35,046	13,265,846
경기도	610,094	1,114,452	536,469	142,096	6,286,710	1,492,083	105,568	10,287,474
강원도	320,480	201,818	2,741,859	1,008,681	1,175,263	401,241	15,538	5,864,880
충청북도	8,027	341,010	1,639,553	1,481,731	1,539,245	399,578	33,115	5,442,259
충청남도	2,748,951	157,148	123,430	394,651	1,566,990	772,423	20,329	5,783,922
전라북도	5,055	190,538	703,726	118,480	1,515,012	317,358	56,173	2,906,343
전라남도	313,555	219,892	626,197	4,134,880	1,575,062	965,937	22,914	7,858,437
경상북도	205,855	280,928	563,031	3,425,791	2,234,115	710,572	15,688	7,435,981
경상남도	1,973,033	184,484	92,251	71,389	2,286,385	661,935	31,904	5,301,380
제주도	35,129	83,998	1,545		313,105	112,324	2,978	549,079
수도권 대기관리권역	854,945	1,580,744	702,098	418,358	10,379,005	2,449,284	147,921	16,532,355
수도권	854,945	1,622,650	808,414	472,812	11,336,438	2,609,369	151,504	17,856,132
전국	7,332,231	4,399,749	16,289,099	13,594,545	28,897,890	9,137,558	433,040	80,084,112

5.5. 총먼지(TSP) 배출량 [비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원*	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	16,102	458,907	4,163		210,008,596	570,088	28,277	211,086,133
부산광역시	130,694	177,190	117,703	104,701	95,387,141	1,096,507	21,697	97,035,632
대구광역시	194,208	267,824	246,246	380	77,825,995	271,320	9,408	78,815,380
인천광역시	228,749	49,292	267,782	330,716	73,333,249	547,197	17,659	74,774,643
광주광역시		74,953	10,232	129	38,244,736	114,703	6,283	38,451,036
대전광역시	5,237	57,428	7,326	243	46,066,654	186,404	10,464	46,333,757
울산광역시	537,062	539,887	8,607,586	2,380,680	35,261,179	517,886	35,046	47,879,326
경기도	610,094	1,114,452	536,469	142,096	357,423,907	1,492,083	105,568	361,424,671
강원도	320,480	201,818	2,741,859	1,008,681	62,833,659	401,241	15,538	67,523,276
충청북도	8,027	341,010	1,639,553	1,481,731	76,754,197	399,578	33,115	80,657,210
충청남도	2,748,951	157,148	123,430	394,651	85,203,625	772,423	20,329	89,420,557
전라북도	5,055	190,538	703,726	118,480	76,490,134	317,358	56,173	77,881,464
전라남도	313,555	219,892	626,197	4,134,880	79,998,288	965,937	22,914	86,281,663
경상북도	205,855	280,928	563,031	3,425,791	116,006,745	710,572	15,688	121,208,611
경상남도	1,973,033	184,484	92,251	71,389	121,229,867	661,935	31,904	124,244,863
제주도	35,129	83,998	1,545		19,853,193	112,324	2,978	20,089,167
수도권 대기관리권역	854,945	1,580,744	702,098	418,358	585,872,206	2,449,284	147,921	592,025,556
수도권	854,945	1,622,650	808,414	472,812	640,765,752	2,609,369	151,504	647,285,446
전국	7,332,231	4,399,749	16,289,099	13,594,545	1,571,921,166	9,137,558	433,040	1,623,107,388

5.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	13,170	324,008	3,302		3,507,842	570,045	5,373	4,423,739
부산광역시	104,018	116,100	90,129	95,661	1,820,324	763,841	4,122	2,994,195
대구광역시	129,632	172,295	163,210	232	1,415,220	271,312	1,788	2,153,688
인천광역시	193,347	37,739	179,411	226,843	1,541,886	452,690	3,355	2,635,271
광주광역시		50,486	6,951	79	654,894	114,693	1,194	828,296
대전광역시	3,249	38,001	4,570	148	818,136	186,404	1,988	1,052,498
울산광역시	378,255	336,553	5,765,720	1,244,081	647,700	357,543	6,659	8,736,509
경기도	441,082	717,959	353,223	102,121	6,286,710	1,425,049	20,058	9,346,203
강원도	214,756	131,865	1,836,225	27,694	1,175,263	360,010	2,952	3,748,765
충청북도	4,978	218,910	1,095,726	68,623	1,539,245	399,573	6,292	3,333,348
충청남도	1,856,010	101,222	87,747	239,523	1,566,990	712,732	3,862	4,568,088
전라북도	3,387	122,085	463,751	101,896	1,515,012	296,187	10,673	2,512,992
전라남도	206,318	138,591	424,595	2,570,167	1,575,062	736,607	4,354	5,655,694
경상북도	138,109	184,696	368,866	1,994,891	2,234,115	658,464	2,981	5,582,122
경상남도	1,322,365	118,519	58,583	65,911	2,286,385	575,605	6,062	4,433,430
제주도	23,560	52,191	971		313,105	95,803	566	486,197
수도권 대기관리권역	647,599	1,052,482	467,182	278,387	10,379,005	2,287,699	28,105	15,140,459
수도권	647,599	1,079,705	535,936	328,964	11,336,438	2,447,784	28,786	16,405,213
전국	5,032,234	2,861,220	10,902,982	6,737,870	28,897,890	7,976,560	82,278	62,491,033

5.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	13,170	324,008	3,302		41,991,071	570,045	5,373	42,906,967
부산광역시	104,018	116,100	90,129	95,661	19,311,431	763,841	4,122	20,485,302
대구광역시	129,632	172,295	163,210	232	15,690,882	271,312	1,788	16,429,350
인천광역시	193,347	37,739	179,411	226,843	14,951,821	452,690	3,355	16,045,207
광주광역시		50,486	6,951	79	7,675,305	114,693	1,194	7,848,707
대전광역시	3,249	38,001	4,570	148	9,262,535	186,404	1,988	9,496,896
울산광역시	378,255	336,553	5,765,720	1,244,081	7,108,039	357,543	6,659	15,196,849
경기도	441,082	717,959	353,223	102,121	71,866,274	1,425,049	20,058	74,925,766
강원도	214,756	131,865	1,836,225	27,694	12,693,191	360,010	2,952	15,266,694
충청북도	4,978	218,910	1,095,726	68,623	15,602,635	399,573	6,292	17,396,738
충청남도	1,856,010	101,222	87,747	239,523	17,210,336	712,732	3,862	20,211,433
전라북도	3,387	122,085	463,751	101,896	15,533,137	296,187	10,673	16,531,117
전라남도	206,318	138,591	424,595	2,570,167	16,256,330	736,607	4,354	20,336,961
경상북도	138,109	184,696	368,866	1,994,891	23,521,197	658,464	2,981	26,869,203
경상남도	1,322,365	118,519	58,583	65,911	24,527,525	575,605	6,062	26,674,570
제주도	23,560	52,191	971		3,966,727	95,803	566	4,139,820
수도권 대기관리권역	647,599	1,052,482	467,182	278,387	117,761,167	2,287,699	28,105	122,522,621
수도권	647,599	1,079,705	535,936	328,964	128,809,166	2,447,784	28,786	133,877,940
전국	5,032,234	2,861,220	10,902,982	6,737,870	317,168,436	7,976,560	82,278	350,761,580

5.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	에너지수송 및 저장	유기용제 사용	도로이동오염원	비도로이동오염원	폐기물처리	배출원대분류 합계
서울특별시	78,784	843,271	32,773	39	3,344,273	45,233,793	24,225,568	1,768,921	2,167,079	77,694,501
부산광역시	319,852	220,204	270,292	384,943	1,417,879	22,473,029	7,126,779	1,313,632	1,486,915	35,013,524
대구광역시	22,969	131,732	59,778	14,147,069	995,414	19,420,431	6,349,629	819,699	452,921	42,399,642
인천광역시	816,433	169,091	103,376	13,844,521	1,565,162	31,186,427	6,525,738	1,228,565	3,160,858	58,600,172
광주광역시		73,303	24,017	17,480	592,375	10,268,479	2,668,887	347,685	256,176	14,248,401
대전광역시	23,886	51,853	12,756	91,028	767,623	7,999,612	3,360,701	542,826	1,344,991	14,195,277
울산광역시	554,497	85,365	378,501	33,789,099	1,968,661	40,434,879	2,455,000	586,303	4,455,880	84,708,186
경기도	663,790	641,299	279,227	605,544	6,326,344	118,211,036	21,626,409	3,939,142	8,973,635	161,266,428
강원도	262,838	70,342	182,279	83,546	903,443	10,844,192	3,724,810	860,277	2,304,650	19,236,377
충청북도	9,361	77,211	123,402	231,411	664,408	15,213,114	4,621,741	1,057,801	4,760,147	26,758,597
충청남도	1,195,439	84,423	247,935	13,903,733	1,476,630	25,392,365	4,587,049	1,734,495	2,132,320	50,754,390
전라북도	3,128	88,271	146,310	2,674,073	851,796	11,046,482	4,918,230	650,265	8,418,177	28,796,731
전라남도	225,881	90,850	117,220	30,039,081	1,574,462	21,215,560	4,691,029	1,268,050	3,300,752	62,522,884
경상북도	18,331	120,686	274,574	6,474,100	1,455,019	27,481,365	7,121,056	1,461,596	1,980,505	46,387,233
경상남도	564,966	125,754	123,574	735,573	1,492,740	54,865,708	7,267,518	1,271,530	3,260,979	69,708,341
제주도	125,137	24,079	2,040	31,899	244,368	3,077,151	1,165,311	241,181	38,083	4,949,248
수도권 대기관리권역	1,559,008	1,615,769	374,454	14,347,357	10,743,483	184,255,652	49,881,642	6,523,352	13,802,947	283,103,664
수도권	1,559,008	1,653,661	415,377	14,450,105	11,235,779	194,631,256	52,377,715	6,936,628	14,301,572	297,561,101
전국	4,885,292	2,897,734	2,378,056	117,053,142	25,640,597	464,363,623	112,435,454	19,091,966	48,494,069	797,239,933

5.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소	비산업 연소	제조업 연소	생산공정	도로이동오염원	비도로이동오염원	자연오염원	농업	배출원대분류 합계
서울특별시	26,658	296,451	10,421	40,836	2,008,452	44,068	2,959,291	87,061	5,473,238
부산광역시	77,144	135,053	86,730	10,218	669,989	40,144	1,025,724	476,856	2,521,857
대구광역시	9,322	77,662	32,462		577,833	20,818	711,675	1,013,923	2,443,696
인천광역시	200,831	81,170	45,845	2,630,626	504,613	30,766	882,064	1,425,283	5,801,199
광주광역시		38,400	14,122	114	294,809	8,708	422,998	763,294	1,542,444
대전광역시	14,890	30,464	7,843	16	369,871	12,300	434,033	267,713	1,137,130
울산광역시	341,598	70,387	170,887	17,353,070	285,690	18,670	345,753	1,026,220	19,612,274
경기도	258,058	348,158	154,960	963	2,600,001	103,281	3,994,195	31,545,948	39,005,564
강원도	13,867	75,951	19,818	110,928	435,064	22,025	807,964	8,424,655	9,910,271
충청북도	5,845	65,692	37,552	27	473,968	22,517	877,809	11,276,854	12,760,264
충청남도	144,577	103,144	106,554	4,038,526	521,594	42,908	1,204,054	26,042,497	32,203,853
전라북도	70	82,725	88,351	862,286	495,913	15,669	1,217,613	22,145,897	24,908,525
전라남도	114,854	139,545	48,900	8,206,035	450,168	36,372	1,143,538	27,434,608	37,574,019
경상북도	3,516	119,576	149,594	736,378	740,171	32,699	1,178,569	22,197,112	25,157,614
경상남도	17,082	120,103	71,953		770,868	33,854	1,280,203	16,167,012	18,461,076
제주도	36,451	25,783	1,369	19,371	133,159	5,917	214,726	4,711,502	5,148,278
수도권 대기관리권역	485,548	678,205	183,961	2,672,426	4,774,271	167,024	7,128,619	21,615,818	37,705,872
수도권	485,548	725,779	211,226	2,672,426	5,113,066	178,116	7,835,550	33,058,292	50,280,001
전국	1,264,764	1,810,262	1,047,360	34,009,394	11,332,162	490,716	18,700,209	175,006,435	243,661,302

6. 2003년 시도별 대분류별 배출량

6.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산과정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	571,494	(571,494)	9,142,701	(9,142,701)	335,342	(335,342)			148,377,317	(160,354,758)	7,407,126	(7,407,126)	172,476	(172,476)	166,006,456 (177,983,897)
부산광역시	288,615	(288,615)	2,662,717	(2,662,717)	448,262	(448,262)	21,008	(21,008)	39,475,398	(43,063,301)	4,829,364	(4,829,364)	124,800	(124,800)	47,850,165 (51,438,068)
대구광역시	119,053	(119,053)	2,055,803	(2,055,803)	468,467	(468,467)	54	(54)	29,509,640	(31,524,389)	2,209,853	(2,209,853)	79,382	(79,382)	34,442,252 (36,457,001)
인천광역시	4,872,533	(4,872,533)	811,187	(811,187)	836,027	(836,027)	593,291	(593,291)	34,653,613	(37,691,173)	4,017,119	(4,017,119)	127,394	(127,394)	45,911,163 (48,948,723)
광주광역시			1,779,323	(1,779,323)	1,049,543	(1,049,543)			14,945,137	(16,204,429)	1,538,862	(1,538,862)	47,135	(47,135)	19,360,000 (20,619,292)
대전광역시	87,611	(87,611)	2,109,654	(2,109,654)	86,313	(86,313)			19,617,276	(21,188,953)	2,035,885	(2,035,885)	38,496	(38,496)	23,975,235 (25,546,912)
울산광역시	2,554,267	(2,554,267)	535,139	(535,139)	2,166,103	(2,166,103)	10,135,074	(11,394,959)	13,716,295	(15,126,832)	1,387,204	(1,387,204)	149,896	(149,896)	30,643,998 (33,314,419)
경기도	4,777,311	(4,777,311)	7,350,136	(7,350,136)	1,902,880	(1,902,880)	73,591	(73,591)	119,375,918	(129,135,792)	9,685,981	(9,685,981)	723,389	(723,389)	143,889,206 (153,649,080)
강원도	666,712	(666,712)	6,050,901	(6,050,901)	1,307,162	(1,307,162)	2,662	(2,662)	20,967,297	(22,735,983)	2,129,009	(2,129,009)	24,131	(24,131)	31,147,875 (32,916,561)
충청북도	31,496	(31,496)	6,012,962	(6,012,962)	913,133	(913,133)			25,085,930	(27,053,253)	2,244,645	(2,244,645)	113,422	(113,422)	34,401,588 (36,368,911)
충청남도	7,556,486	(7,556,486)	2,366,661	(2,366,661)	1,126,345	(1,126,345)	1,182,808	(1,182,808)	24,472,570	(26,240,147)	3,740,509	(3,740,509)	107,374	(107,374)	40,552,753 (42,320,330)
전라북도	92,926	(92,926)	2,067,027	(2,067,027)	705,812	(705,812)	70,757	(70,757)	26,047,872	(28,251,473)	2,380,564	(2,380,564)	97,383	(97,383)	31,462,341 (33,665,942)
전라남도	871,365	(871,365)	2,044,254	(2,044,254)	1,111,968	(1,111,968)	7,499,990	(7,499,990)	24,441,370	(26,756,259)	3,856,409	(3,856,409)	43,405	(43,405)	39,868,761 (42,183,649)
경상북도	130,771	(130,771)	7,791,092	(7,791,092)	1,261,291	(1,261,291)	2,435,220	(2,451,727)	38,248,667	(41,145,203)	4,961,070	(4,961,070)	74,465	(74,465)	54,902,576 (57,815,618)
경상남도	4,570,017	(4,570,017)	1,952,146	(1,952,146)	1,180,554	(1,180,554)	7,779	(7,779)	40,058,642	(43,274,633)	3,691,766	(3,691,766)	176,318	(176,318)	51,637,221 (54,853,212)
제주도	943,068	(943,068)	276,866	(276,866)	13,060	(13,060)			6,819,306	(7,326,628)	1,283,641	(1,283,641)	26,666	(26,666)	9,362,607 (9,869,929)
수도권 대기관리구역	10,221,338	(10,221,338)	16,612,100	(16,612,100)	2,848,118	(2,848,118)	606,086	(606,086)	287,389,344	(311,092,587)	20,220,355	(20,220,355)	1,017,287	(1,017,287)	338,914,628 (362,617,871)
수도권	10,221,338	(10,221,338)	17,304,024	(17,304,024)	3,074,249	(3,074,249)	666,881	(666,881)	302,406,848	(327,181,723)	21,110,226	(21,110,226)	1,023,259	(1,023,259)	355,806,825 (380,581,700)
전국	28,133,745	(28,133,745)	55,008,569	(55,008,569)	14,912,260	(14,912,260)	22,022,234	(23,298,624)	625,812,249	(677,073,206)	57,399,008	(57,399,008)	2,126,132	(2,126,132)	805,414,197 (857,951,544)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산과정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	977,471	(603,920)	20,159,577	(15,544,201)	1,154,079	(1,534,017)			64,372,368	(65,590,705)	23,875,036	(23,875,036)	1,159,280	(1,159,280)	111,697,812 (108,307,158)
부산광역시	1,704,280	(1,277,064)	6,305,575	(5,654,301)	2,277,441	(2,025,815)	1,382,185	(1,382,185)	28,482,603	(31,087,962)	24,104,049	(24,104,049)	788,800	(788,800)	65,044,933 (66,320,176)
대구광역시	2,502,545	(1,101,272)	4,378,777	(3,995,568)	3,423,852	(3,400,005)	2,316	(2,316)	21,495,586	(20,708,131)	7,086,424	(7,086,424)	387,445	(387,445)	39,276,944 (36,681,161)
인천광역시	15,997,678	(15,308,637)	4,383,833	(3,639,940)	4,747,112	(4,486,415)	3,913,947	(3,913,947)	22,485,803	(23,708,827)	14,384,203	(14,384,203)	910,401	(910,401)	66,822,977 (66,352,371)
광주광역시			2,216,186	(1,840,015)	3,179,658	(1,946,680)			9,962,795	(10,148,234)	4,975,799	(4,975,799)	260,300	(260,300)	20,594,737 (19,171,027)
대전광역시	969,557	(857,123)	2,785,390	(2,255,454)	658,344	(631,706)			14,338,848	(13,964,560)	6,380,908	(6,380,908)	462,540	(462,540)	25,595,587 (24,552,292)
울산광역시	22,954,086	(20,063,531)	3,240,564	(3,114,071)	16,101,068	(17,663,610)	4,510,142	(4,510,142)	10,789,241	(11,009,949)	8,559,244	(8,559,244)	1,923,419	(1,923,419)	68,077,765 (66,843,966)
경기도	31,126,587	(27,272,990)	18,878,621	(16,437,254)	11,908,055	(11,461,426)	3,164,397	(3,164,397)	99,799,604	(100,896,962)	33,639,262	(33,639,262)	4,773,156	(4,773,156)	203,289,681 (197,645,447)
강원도	18,130,319	(5,497,182)	4,341,704	(3,730,305)	27,202,714	(36,043,127)	114,483	(114,483)	19,071,814	(19,149,127)	7,424,208	(7,424,208)	285,981	(285,981)	76,571,223 (72,244,414)
충청북도	208,753	(208,753)	3,720,265	(3,023,677)	15,059,732	(18,994,585)			25,718,612	(25,253,381)	5,982,428	(5,982,428)	1,965,554	(1,965,554)	52,655,345 (55,428,379)
충청남도	163,390,874	(64,714,372)	3,999,590	(3,889,110)	7,510,575	(7,112,952)	1,633,310	(1,633,310)	25,452,328	(24,947,567)	12,050,114	(12,050,114)	821,279	(821,279)	214,858,071 (115,168,705)
전라북도	2,080,432	(885,962)	3,645,736	(3,369,245)	7,299,061	(7,496,128)	3,042,557	(3,042,557)	24,380,536	(24,168,882)	7,128,083	(7,128,083)	1,819,264	(1,819,264)	49,395,668 (47,910,121)
전라남도	11,607,351	(7,197,657)	4,769,898	(4,713,675)	6,534,809	(7,668,117)	18,796,164	(19,949,725)	24,763,126	(25,528,045)	17,213,220	(17,213,220)	598,421	(598,421)	84,282,988 (82,868,861)
경상북도	1,793,868	(704,227)	5,858,767	(4,981,706)	9,988,081	(9,795,116)	16,406,493	(17,891,970)	36,276,607	(36,190,153)	14,412,752	(14,412,752)	932,294	(932,294)	85,668,863 (84,908,219)
경상남도	119,611,939	(43,340,236)	4,745,609	(4,700,096)	6,127,605	(7,034,207)	698,478	(698,478)	39,862,915	(39,424,890)	12,695,192	(12,695,192)	1,565,653	(1,565,653)	185,307,390 (109,458,750)
제주도	3,013,830	(2,812,722)	1,172,319	(1,532,214)	49,186	(75,722)			4,991,970	(5,273,649)	3,672,151	(3,672,151)	101,128	(101,128)	13,000,584 (13,467,585)
수도권 대기관리구역	48,101,737	(43,185,547)	41,613,034	(38,824,314)	15,785,601	(15,436,263)	4,464,153	(4,464,153)	170,293,339	(173,953,718)	69,286,707	(69,286,707)	6,779,919	(6,779,919)	356,324,459 (346,930,622)
수도권	48,101,737	(43,185,547)	43,422,031	(35,621,395)	17,809,246	(17,481,859)	7,078,345	(7,078,345)	186,657,774	(190,196,494)	71,898,500	(71,898,500)	6,842,837	(6,842,837)	381,810,470 (372,304,976)
전국	396,069,572	(191,845,648)	94,602,411	(82,420,832)	123,221,373	(137,369,629)	53,664,473	(56,303,512)	472,244,754	(477,051,025)	203,583,073	(203,583,073)	18,754,914	(18,754,914)	1,362,140,569 (1,167,328,633)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	429,811	(562,052)	4,720,188	(5,493,357)	165,039	(209,201)			929,461	(895,586)	345,318	(345,318)	130,102	(130,102)	6,719,918	(7,635,616)
부산광역시	794,866	(793,319)	7,255,644	(7,627,458)	1,713,541	(2,109,452)	1,448,844	(1,547,265)	412,185	(425,148)	12,127,805	(12,127,805)	94,872	(94,872)	23,847,756	(24,725,318)
대구광역시	2,706,519	(2,742,672)	1,851,329	(2,006,066)	2,036,243	(2,386,475)	6,937	(30,537)	299,028	(297,305)	100,566	(100,566)	62,018	(62,018)	6,862,639	(7,625,639)
인천광역시	896,229	(1,087,665)	1,438,610	(1,460,304)	3,308,205	(3,689,050)	4,107,022	(4,372,219)	329,552	(330,710)	4,392,797	(4,392,797)	95,303	(95,303)	14,567,719	(15,428,049)
광주광역시			658,450	(707,235)	219,083	(272,846)	5,544	(29,647)	139,950	(139,480)	70,381	(70,381)	36,382	(36,382)	1,129,790	(1,255,971)
대전광역시	542,893	(715,252)	665,797	(690,904)	293,597	(385,521)	3,645	(19,976)	185,414	(185,722)	103,060	(103,060)	26,056	(26,056)	1,820,462	(2,126,492)
울산광역시	11,964,215	(18,639,475)	9,244,813	(11,046,979)	10,845,840	(12,621,782)	20,970,540	(25,521,140)	146,707	(148,035)	5,787,950	(5,787,950)	99,666	(99,666)	58,859,732	(73,865,028)
경기도	12,185,329	(14,602,964)	8,501,093	(10,505,168)	11,506,931	(14,581,731)	2,143,759	(2,505,572)	1,460,843	(1,455,131)	3,368,680	(3,368,680)	546,971	(546,971)	39,713,606	(47,566,216)
강원도	3,591,511	(3,695,834)	2,636,670	(2,765,467)	16,106,535	(16,415,026)	328,311	(352,665)	263,897	(263,897)	1,620,755	(1,620,755)	16,391	(16,391)	24,564,070	(25,130,036)
충청북도	66,718	(87,892)	2,814,037	(3,113,123)	12,047,150	(12,937,745)	889,422	(965,498)	348,957	(354,617)	107,055	(107,055)	67,949	(67,949)	16,341,290	(17,633,879)
충청남도	44,914,264	(26,316,472)	1,423,989	(1,622,943)	5,711,727	(7,457,131)	4,429,949	(4,561,261)	347,673	(352,952)	2,402,489	(2,402,489)	79,537	(79,537)	59,309,628	(42,792,785)
전라북도	2,053,040	(2,126,539)	2,505,594	(2,770,003)	7,490,588	(9,493,740)	2,001,239	(2,088,362)	326,142	(328,106)	885,678	(885,678)	56,414	(56,414)	15,318,694	(17,748,842)
전라남도	16,724,749	(17,672,642)	6,474,282	(6,924,261)	5,112,876	(5,931,476)	18,641,178	(23,348,797)	339,732	(345,892)	9,054,605	(9,054,605)	28,253	(28,253)	56,375,675	(63,305,926)
경상북도	4,327,349	(4,370,409)	3,480,740	(3,795,878)	10,044,740	(12,718,833)	18,175,271	(21,494,979)	499,019	(506,229)	1,921,014	(1,921,014)	49,851	(49,851)	38,497,984	(44,857,193)
경상남도	91,927,568	(91,966,164)	2,149,522	(2,479,449)	3,872,948	(4,962,714)	874,609	(960,727)	548,738	(557,234)	2,943,397	(2,943,397)	127,432	(127,432)	102,444,214	(103,997,119)
제주도	1,390,777	(1,822,801)	466,028	(556,778)	49,148	(64,107)	1,559	(8,338)	76,526	(76,032)	766,898	(766,898)	21,258	(21,258)	2,772,194	(3,316,212)
수도권 대기관리구역	13,511,369	(16,252,681)	14,224,501	(16,961,398)	11,338,458	(13,789,444)	4,547,419	(5,169,659)	2,489,700	(2,448,300)	8,070,291	(8,070,291)	768,205	(768,205)	54,949,942	(63,459,977)
수도권	13,511,369	(16,252,681)	14,059,891	(17,458,829)	14,980,175	(18,479,982)	6,250,781	(6,877,791)	2,719,857	(2,881,428)	8,106,794	(8,106,794)	772,377	(772,377)	61,001,243	(70,629,882)
전국	194,515,840	(187,202,152)	56,086,785	(63,565,374)	90,324,190	(106,236,832)	74,027,830	(87,806,984)	6,653,825	(6,662,076)	45,998,448	(45,998,448)	1,538,455	(1,538,455)	469,145,372	(499,010,320)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.4. 총먼지(TSP) 배출량

비산먼지 제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	17,990	(17,990)	441,458	(442,493)	6,823	(8,505)			3,429,817	(3,452,294)	916,214	(916,214)	27,096	(27,096)	4,839,398	(4,864,592)
부산광역시	95,006	(95,006)	179,677	(180,273)	191,584	(191,718)	96,460	(96,460)	1,710,292	(1,939,833)	1,232,203	(1,232,203)	18,691	(18,691)	3,523,912	(3,754,183)
대구광역시	155,555	(155,555)	236,985	(237,351)	557,069	(557,216)	862	(862)	1,236,179	(1,272,005)	282,054	(282,054)	9,798	(9,798)	2,478,502	(2,514,841)
인천광역시	193,948	(193,948)	48,843	(49,074)	610,021	(610,178)	676,646	(676,646)	1,432,167	(1,574,242)	564,133	(564,133)	21,004	(21,004)	3,546,762	(3,689,225)
광주광역시			62,630	(62,792)	9,594	(9,639)	115	(115)	596,433	(638,692)	194,270	(194,270)	6,371	(6,371)	869,413	(911,879)
대전광역시	5,922	(5,922)	67,435	(67,657)	10,749	(10,781)	254	(18,439)	804,416	(845,060)	287,058	(287,058)	9,776	(9,776)	1,185,611	(1,244,693)
울산광역시	559,842	(559,842)	534,248	(534,371)	8,966,894	(8,973,770)	2,345,016	(4,926,141)	629,215	(676,010)	485,185	(485,185)	40,303	(40,303)	13,560,703	(16,195,621)
경기도	695,360	(695,360)	996,747	(997,814)	1,067,230	(1,068,133)	149,850	(149,850)	6,011,272	(6,640,499)	1,500,050	(1,500,050)	112,015	(112,015)	10,532,523	(11,163,721)
강원도	382,313	(382,313)	193,788	(194,132)	4,621,372	(4,621,458)	1,376,288	(1,376,288)	1,170,144	(1,280,650)	399,205	(399,205)	6,055	(6,055)	8,149,166	(8,260,102)
충청북도	7,175	(7,175)	291,174	(291,437)	3,124,221	(3,125,135)	1,193,816	(1,193,816)	1,535,348	(1,691,318)	353,534	(353,534)	39,828	(39,828)	6,545,096	(6,702,244)
충청남도	3,117,661	(3,117,661)	162,573	(162,914)	125,520	(126,559)	247,972	(247,972)	1,520,511	(1,675,313)	711,777	(711,777)	18,690	(18,690)	5,904,703	(6,060,885)
전라북도	24,248	(24,248)	191,006	(191,347)	660,888	(661,225)	85,924	(85,924)	1,449,717	(1,594,294)	423,502	(423,502)	36,604	(36,604)	2,871,889	(3,017,144)
전라남도	201,956	(201,956)	238,207	(238,629)	858,658	(886,867)	3,382,780	(3,187,274)	1,503,926	(1,709,376)	1,081,387	(1,081,387)	12,429	(12,429)	7,279,342	(7,317,917)
경상북도	204,625	(204,625)	273,985	(274,395)	1,012,546	(1,013,150)	3,690,407	(3,440,782)	2,222,048	(2,444,436)	895,987	(895,987)	19,597	(19,597)	8,319,195	(8,292,972)
경상남도	2,264,496	(2,264,496)	175,162	(175,793)	148,746	(187,947)	65,354	(65,354)	2,348,686	(2,585,137)	715,952	(715,952)	34,661	(34,661)	5,753,056	(6,029,339)
제주도	36,604	(36,604)	81,640	(81,762)	1,805	(1,841)			303,207	(343,953)	156,206	(156,206)	2,760	(2,760)	582,222	(623,126)
수도권 대기관리구역	907,298	(907,298)	1,431,892	(1,434,075)	1,502,637	(1,505,321)	760,071	(760,071)	9,875,276	(10,554,458)	2,841,683	(2,841,683)	158,760	(158,760)	17,477,817	(18,161,666)
수도권	907,298	(907,298)	1,487,048	(1,489,381)	1,684,074	(1,686,815)	828,496	(826,496)	10,873,256	(11,667,035)	2,980,397	(2,980,397)	160,114	(160,114)	18,918,683	(19,717,538)
전국	7,962,702	(7,962,702)	4,175,556	(4,182,233)	21,973,719	(22,054,122)	13,311,744	(15,465,922)	27,903,378	(30,363,113)	10,198,716	(10,198,716)	415,677	(415,677)	85,941,493	(90,642,486)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	17,990	(17,990)	441,458	(442,493)	6,823	(8,505)			193,987,287	(194,072,782)	916,214	(916,214)	27,096	(27,096)	195,396,868	(195,485,080)
부산광역시	95,006	(95,006)	179,677	(180,273)	191,584	(191,718)	96,460	(96,460)	86,282,894	(86,702,575)	1,232,203	(1,232,203)	18,691	(18,691)	88,096,514	(88,516,925)
대구광역시	155,555	(155,555)	236,985	(237,351)	557,069	(557,216)	862	(862)	69,692,956	(69,689,484)	282,054	(282,054)	9,798	(9,798)	70,935,279	(70,932,320)
인천광역시	193,948	(193,948)	48,843	(49,074)	610,021	(610,178)	676,646	(676,646)	67,685,606	(67,651,050)	564,133	(564,133)	21,004	(21,004)	69,800,201	(69,766,033)
광주광역시			62,630	(62,792)	9,594	(9,639)	115	(115)	34,217,962	(34,244,982)	194,270	(194,270)	6,371	(6,371)	34,490,942	(34,518,169)
대전광역시	5,922	(5,922)	67,435	(67,657)	10,749	(10,781)	254	(18,439)	40,602,392	(40,620,289)	287,058	(287,058)	9,776	(9,776)	40,983,587	(41,019,922)
울산광역시	559,842	(559,842)	534,248	(534,371)	8,966,894	(8,973,770)	2,345,016	(4,926,141)	32,952,964	(33,016,054)	485,185	(485,185)	40,303	(40,303)	45,884,452	(48,535,666)
경기도	695,360	(695,360)	996,747	(997,814)	1,067,230	(1,068,133)	149,850	(149,850)	328,090,514	(329,241,298)	1,500,050	(1,500,050)	112,015	(112,015)	332,611,766	(333,764,520)
강원도	382,313	(382,313)	193,788	(194,132)	4,621,372	(4,621,458)	1,376,288	(1,376,288)	61,525,355	(61,636,034)	399,205	(399,205)	6,055	(6,055)	68,504,377	(68,615,486)
충청북도	7,175	(7,175)	291,174	(291,437)	3,124,221	(3,125,135)	1,193,816	(1,193,816)	72,866,664	(73,010,384)	353,534	(353,534)	39,828	(39,828)	77,876,413	(78,021,310)
충청남도	3,117,661	(3,117,661)	162,573	(162,914)	125,520	(126,559)	247,972	(247,972)	79,656,014	(79,796,005)	711,777	(711,777)	18,690	(18,690)	84,040,206	(84,181,578)
전라북도	24,248	(24,248)	191,006	(191,347)	660,888	(661,225)	85,924	(85,924)	72,446,258	(72,604,765)	423,502	(423,502)	36,604	(36,604)	73,868,430	(74,027,615)
전라남도	201,956	(201,956)	238,207	(238,629)	858,658	(886,867)	3,382,780	(3,187,274)	74,603,382	(74,801,256)	1,081,387	(1,081,387)	12,429	(12,429)	80,378,798	(80,409,798)
경상북도	204,625	(204,625)	273,985	(274,395)	1,012,546	(1,013,150)	3,690,407	(3,440,782)	110,829,871	(110,924,872)	895,987	(895,987)	19,597	(19,597)	116,927,018	(116,773,407)
경상남도	2,264,496	(2,264,496)	175,162	(175,793)	148,746	(187,947)	65,354	(65,354)	118,033,404	(118,161,190)	715,952	(715,952)	34,661	(34,661)	121,437,775	(121,605,391)
제주도	36,604	(36,604)	81,640	(81,762)	1,805	(1,841)			18,847,140	(18,911,878)	156,206	(156,206)	2,760	(2,760)	19,126,155	(19,191,051)
수도권 대기관리구역	907,298	(907,298)	1,431,892	(1,434,075)	1,502,637	(1,505,321)	760,071	(760,071)	535,675,208	(536,754,834)	2,841,683	(2,841,683)	158,760	(158,760)	543,277,550	(544,362,043)
수도권	907,298	(907,298)	1,487,048	(1,489,381)	1,684,074	(1,686,815)	828,496	(828,496)	589,783,407	(590,965,130)	2,980,397	(2,980,397)	160,114	(160,114)	597,808,835	(598,015,632)
전국	7,962,702	(7,962,702)	4,175,556	(4,182,233)	21,973,719	(22,054,122)	13,311,744	(15,465,922)	1,462,320,664	(1,465,064,898)	10,198,716	(10,198,716)	415,677	(415,677)	1,520,358,779	(1,525,364,271)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	14,395	(14,395)	312,462	(313,410)	5,137	(6,725)			3,429,817	(3,452,294)	916,162	(916,162)	5,148	(5,148)	4,683,121	(4,708,135)
부산광역시	65,524	(65,524)	117,938	(118,485)	128,072	(128,199)	88,958	(88,958)	1,710,292	(1,939,833)	912,741	(912,741)	3,551	(3,551)	3,027,076	(3,257,291)
대구광역시	103,761	(103,761)	151,607	(151,942)	371,074	(371,213)	544	(544)	1,236,179	(1,272,005)	282,044	(282,044)	1,862	(1,862)	2,147,070	(2,183,370)
인천광역시	165,515	(165,515)	37,541	(37,753)	409,139	(409,288)	469,664	(469,664)	1,432,167	(1,574,242)	451,541	(451,541)	3,991	(3,991)	2,969,558	(3,111,994)
광주광역시			42,654	(42,802)	6,993	(7,036)	70	(70)	596,433	(638,692)	194,257	(194,257)	1,211	(1,211)	841,618	(884,069)
대전광역시	4,206	(4,206)	46,675	(46,879)	6,718	(6,748)	155	(11,248)	804,416	(845,060)	287,058	(287,058)	1,857	(1,857)	1,151,085	(1,203,055)
울산광역시	391,215	(391,215)	333,008	(333,120)	6,004,927	(6,011,421)	1,221,086	(2,779,408)	629,215	(676,010)	331,504	(331,504)	7,658	(7,658)	8,918,612	(10,530,335)
경기도	501,259	(501,259)	644,386	(645,364)	707,110	(707,963)	110,043	(110,043)	6,011,272	(6,640,499)	1,421,475	(1,421,475)	21,283	(21,283)	9,416,828	(10,047,887)
강원도	256,187	(256,187)	126,496	(126,812)	3,095,512	(3,095,593)	25,911	(25,911)	1,170,144	(1,280,650)	358,175	(358,175)	1,151	(1,151)	5,033,575	(5,144,478)
충청북도	4,450	(4,450)	187,068	(187,309)	2,090,797	(2,091,660)	80,983	(80,983)	1,535,348	(1,691,318)	353,530	(353,530)	7,567	(7,567)	4,259,743	(4,416,818)
충청남도	2,098,295	(2,098,295)	103,839	(104,152)	79,496	(80,478)	147,707	(147,707)	1,520,511	(1,675,313)	651,749	(651,749)	3,551	(3,551)	4,605,147	(4,761,244)
전라북도	16,248	(16,248)	121,964	(122,276)	437,196	(437,514)	75,405	(75,405)	1,449,717	(1,594,294)	402,400	(402,400)	6,955	(6,955)	2,509,884	(2,655,093)
전라남도	132,515	(132,515)	150,094	(150,482)	583,628	(610,270)	1,952,476	(1,799,785)	1,503,926	(1,709,376)	842,535	(842,535)	2,361	(2,361)	5,167,536	(5,247,324)
경상북도	137,210	(137,210)	178,777	(179,153)	670,057	(670,627)	2,253,314	(2,057,777)	2,222,048	(2,444,436)	850,090	(850,090)	3,723	(3,723)	6,315,220	(6,343,018)
경상남도	1,517,632	(1,517,632)	112,586	(113,164)	107,246	(144,270)	59,983	(59,983)	2,348,686	(2,585,137)	641,042	(641,042)	6,586	(6,586)	4,793,761	(5,067,813)
제주도	24,458	(24,458)	50,756	(50,868)	1,132	(1,166)			303,207	(343,953)	137,133	(137,133)	524	(524)	517,210	(558,102)
수도권 대기관리구역	681,169	(681,169)	959,057	(961,059)	1,001,775	(1,004,309)	518,516	(518,518)	9,875,276	(10,554,458)	2,650,465	(2,650,465)	30,164	(30,164)	15,716,424	(16,400,142)
수도권	681,169	(681,169)	994,389	(996,528)	1,121,387	(1,123,976)	579,707	(579,707)	10,873,256	(11,667,035)	2,789,179	(2,789,179)	30,422	(30,422)	17,069,508	(17,868,016)
전국	5,432,867	(5,432,867)	2,717,850	(2,723,973)	14,704,236	(14,780,171)	6,486,300	(7,707,486)	27,903,378	(30,363,113)	9,033,437	(9,033,437)	78,979	(78,979)	66,357,046	(70,120,026)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

6.7. 미세먼지(PM₁₀) 배출량 [비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원다분류 합계	
서울특별시	14,395	(14,395)	312,462	(313,410)	5,137	(6,725)			38,945,003	(38,978,804)	916,162	(916,162)	5,148	(5,148)	40,198,307	(40,234,645)
부산광역시	65,524	(65,524)	117,938	(118,485)	128,072	(128,199)	88,958	(88,958)	17,520,945	(17,785,245)	912,741	(912,741)	3,551	(3,551)	18,837,729	(19,102,702)
대구광역시	103,761	(103,761)	151,607	(151,942)	371,074	(371,213)	544	(544)	14,028,186	(14,056,738)	282,044	(282,044)	1,862	(1,862)	14,939,077	(14,968,103)
인천광역시	165,515	(165,515)	37,541	(37,753)	409,139	(409,288)	469,664	(469,664)	13,811,047	(13,920,083)	451,541	(451,541)	3,991	(3,991)	15,348,438	(15,457,834)
광주광역시			42,654	(42,802)	6,993	(7,036)	70	(70)	6,877,626	(6,916,999)	194,257	(194,257)	1,211	(1,211)	7,122,812	(7,162,375)
대전광역시	4,206	(4,206)	46,675	(46,679)	6,718	(6,748)	155	(11,248)	8,231,986	(8,268,296)	287,058	(287,058)	1,857	(1,857)	8,578,654	(8,626,291)
울산광역시	391,215	(391,215)	333,008	(333,120)	6,004,927	(6,011,421)	1,221,086	(2,779,408)	6,664,388	(6,714,159)	331,504	(331,504)	7,658	(7,658)	14,953,785	(16,568,485)
경기도	501,259	(501,259)	644,386	(645,364)	707,110	(707,963)	110,043	(110,043)	66,169,933	(66,897,504)	1,421,475	(1,421,475)	21,283	(21,283)	69,575,489	(70,304,892)
강원도	256,187	(256,187)	126,496	(126,812)	3,095,512	(3,095,593)	25,911	(25,911)	12,448,092	(12,558,425)	358,175	(358,175)	1,151	(1,151)	16,311,523	(16,422,253)
충청북도	4,450	(4,450)	187,068	(187,309)	2,090,797	(2,091,660)	80,983	(80,983)	14,875,373	(15,028,914)	353,530	(353,530)	7,567	(7,567)	17,599,768	(17,754,414)
충청남도	2,098,295	(2,098,295)	103,839	(104,152)	79,496	(80,478)	147,707	(147,707)	16,136,627	(16,288,665)	651,749	(651,749)	3,551	(3,551)	19,221,264	(19,374,596)
전라북도	16,248	(16,248)	121,964	(122,276)	437,196	(437,514)	75,405	(75,405)	14,726,064	(14,873,183)	402,400	(402,400)	6,955	(6,955)	15,786,232	(15,933,982)
전라남도	132,515	(132,515)	150,094	(150,482)	583,628	(610,270)	1,952,476	(1,799,785)	15,191,100	(15,394,737)	842,535	(842,535)	2,361	(2,361)	18,854,710	(18,932,685)
경상북도	137,210	(137,210)	178,777	(179,153)	670,057	(670,627)	2,253,314	(2,057,777)	22,546,367	(22,744,247)	850,090	(850,090)	3,723	(3,723)	26,639,538	(26,642,828)
경상남도	1,517,632	(1,517,632)	112,586	(113,164)	107,246	(144,270)	59,983	(59,983)	23,984,775	(24,200,346)	641,042	(641,042)	6,586	(6,586)	26,429,850	(26,683,022)
제주도	24,458	(24,458)	50,756	(50,868)	1,132	(1,166)			3,771,367	(3,816,606)	137,133	(137,133)	524	(524)	3,985,370	(4,030,756)
수도권 대기관리구역	681,169	(681,169)	959,057	(961,059)	1,001,775	(1,004,309)	518,518	(518,518)	107,996,188	(108,750,705)	2,650,465	(2,650,465)	30,164	(30,164)	113,837,336	(114,596,389)
수도권	681,169	(681,169)	994,389	(996,528)	1,121,387	(1,123,878)	578,707	(579,707)	118,925,982	(119,796,391)	2,789,179	(2,789,179)	30,422	(30,422)	125,122,235	(125,997,372)
전국	5,432,867	(5,432,867)	2,717,850	(2,723,973)	14,704,236	(14,780,171)	6,486,300	(7,707,486)	295,928,878	(298,442,951)	9,033,437	(9,033,437)	78,979	(78,979)	334,382,546	(338,199,864)

()는 2003년 기준 배출량(산정 방법론 변경론 배출량)

6.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		에너지수송 및 저장		유기용제 사용		도로이동오염원		비도로이동오염원		폐기물처리		배출원다분류 합계	
서울특별시	85,454	(85,454)	837,208	(837,208)	50,108	(50,108)			3,617,372	(3,617,372)	51,648,017	(49,613,171)	25,111,474	(27,694,216)	2,846,085	(2,846,085)	1,948,955	(1,948,955)	86,144,674	(86,692,570)
부산광역시	38,759	(38,759)	200,859	(200,859)	71,174	(71,174)	1,717,166	(1,717,166)	1,517,318	(1,517,318)	23,986,910	(22,760,016)	7,182,735	(7,887,859)	1,816,656	(1,816,656)	1,440,375	(1,440,375)	37,971,952	(37,450,182)
대구광역시	20,457	(20,457)	135,818	(135,818)	84,983	(84,983)	2,206,857	(2,206,857)	1,121,678	(1,121,678)	18,099,169	(17,373,912)	5,285,215	(5,606,711)	851,290	(851,290)	482,342	(482,342)	28,287,809	(27,884,047)
인천광역시	676,884	(676,884)	168,345	(168,345)	130,868	(130,868)	14,399,044	(14,399,044)	1,578,226	(1,578,226)	27,746,031	(26,524,816)	6,253,049	(6,926,731)	1,148,331	(1,148,331)	3,708,780	(3,708,780)	55,809,558	(55,262,025)
광주광역시			71,984	(71,984)	142,083	(142,083)	23,880	(23,880)	587,910	(587,910)	10,799,872	(10,344,153)	2,629,204	(2,862,685)	592,012	(592,012)	425,987	(425,987)	15,272,932	(15,050,694)
대전광역시	18,252	(18,252)	99,489	(99,489)	17,418	(17,418)	906,851	(906,851)	748,398	(748,398)	8,520,335	(8,139,992)	3,574,162	(3,844,691)	828,708	(828,708)	1,345,585	(1,345,585)	16,059,198	(15,949,384)
울산광역시	540,043	(540,043)	86,001	(86,001)	413,204	(413,204)	35,968,503	(35,663,851)	1,911,463	(1,911,463)	36,345,908	(24,601,987)	2,537,630	(2,776,043)	515,430	(515,430)	5,211,955	(5,211,955)	83,530,136	(71,719,977)
경기도	752,136	(752,136)	627,567	(627,567)	341,989	(341,989)	4,576,313	(4,576,313)	6,425,442	(6,425,442)	98,531,269	(94,368,246)	21,087,458	(22,952,266)	3,811,159	(3,811,159)	8,145,229	(8,145,229)	144,298,562	(142,000,346)
강원도	304,435	(304,435)	73,715	(73,715)	173,040	(173,040)	940,286	(940,286)	927,010	(927,010)	8,884,043	(8,556,981)	3,713,358	(3,971,117)	791,201	(791,201)	984,668	(984,668)	16,791,755	(16,722,452)
충청북도	8,065	(8,065)	76,255	(76,255)	145,020	(145,020)	1,780,654	(1,780,654)	665,861	(665,861)	10,896,745	(10,486,708)	4,643,325	(4,913,705)	828,257	(828,257)	5,729,519	(5,729,519)	24,773,701	(24,634,044)
충청남도	1,084,883	(1,084,883)	84,476	(84,476)	209,318	(209,318)	17,181,948	(16,599,440)	1,474,163	(1,474,163)	17,061,535	(16,388,683)	4,458,885	(4,653,878)	1,369,301	(1,369,301)	1,726,578	(1,726,578)	44,651,088	(43,590,721)
전라북도	25,113	(25,113)	94,770	(94,770)	162,279	(162,279)	3,960,742	(3,960,742)	772,502	(772,502)	10,389,404	(10,021,029)	4,689,815	(4,980,448)	844,481	(844,781)	5,486,312	(5,486,312)	26,425,718	(26,347,976)
전라남도	154,932	(154,932)	98,604	(98,604)	176,758	(176,758)	34,623,204	(35,510,348)	1,484,345	(1,484,345)	17,773,480	(14,165,101)	4,526,497	(4,856,977)	1,352,484	(1,352,484)	1,785,017	(1,785,017)	61,975,521	(59,584,566)
경상북도	16,878	(16,878)	124,522	(124,522)	246,923	(246,923)	9,072,266	(9,072,266)	1,493,378	(1,493,378)	24,606,773	(23,645,058)	7,088,471	(7,510,049)	1,770,663	(1,770,663)	2,673,760	(2,673,760)	47,093,634	(46,553,497)
경상남도	554,935	(554,935)	127,300	(127,300)	200,104	(200,104)	1,965,333	(1,965,333)	1,522,560	(1,522,560)	47,122,757	(38,508,589)	7,526,144	(8,015,968)	1,340,858	(1,340,858)	3,726,654	(3,726,654)	64,086,644	(55,962,301)
제주도	116,785	(116,785)	25,781	(25,781)	2,458	(2,458)	175,056	(175,056)	250,119	(250,119)	3,147,237	(3,018,163)	1,167,015	(1,262,553)	335,959	(335,959)	61,646	(61,646)	5,282,056	(5,248,519)
수도권 대기관리구역	1,514,474	(1,514,474)	1,595,241	(1,595,241)	473,790	(473,790)	18,813,689	(18,813,689)	11,135,133	(11,135,133)	170,428,529	(163,337,526)	49,729,966	(54,712,390)	7,492,509	(7,492,509)	13,628,128	(13,628,128)	274,811,458	(272,702,880)
수도권	1,514,474	(1,514,474)	1,633,120	(1,633,120)	522,965	(522,965)	18,975,357	(18,975,357)	11,621,040	(11,621,040)	177,925,317	(170,506,233)	52,451,981	(57,573,213)	7,805,575	(7,805,575)	13,802,965	(13,802,965)	286,252,793	(283,954,942)
전국	4,398,011	(4,398,011)	2,932,695	(2,932,695)	2,567,728	(2,567,728)	129,498,101	(129,498,086)	26,097,743	(26,097,743)	415,559,485	(378,516,805)	111,474,437	(120,715,897)	21,043,174	(21,043,174)	44,883,363	(44,883,363)	758,454,738	(730,653,303)

()는 2003년 기준 배출량(산정 방법론 변경론 배출량)

6.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		자연오염원		농업		배출원대분류 합계	
서울특별시	28,549	(28,549)	311,340	(311,340)	16,917	(16,917)	44,107	(44,107)	1,878,736	(2,082,598)	71,547	(71,547)	2,979,401	(2,979,401)	31,859	(31,859)	5,362,456	(5,566,318)
부산광역시	8,791	(8,791)	143,555	(143,555)	34,555	(34,555)	4,720	(4,720)	622,056	(674,732)	52,690	(52,690)	1,020,071	(1,020,071)	257,472	(257,472)	2,143,909	(2,196,585)
대구광역시	7,516	(7,516)	91,469	(91,469)	44,257	(44,257)			510,101	(552,011)	21,581	(21,581)	712,681	(712,681)	781,088	(781,088)	2,168,692	(2,210,603)
인천광역시	184,631	(184,631)	85,460	(85,460)	57,124	(57,124)	2,467,139	(2,467,139)	469,371	(525,065)	29,228	(29,228)	870,168	(870,168)	1,323,859	(1,323,859)	5,486,982	(5,542,675)
광주광역시			41,308	(41,308)	46,999	(46,999)	51	(51)	261,767	(286,911)	15,031	(15,031)	417,448	(417,448)	363,443	(363,443)	1,146,047	(1,171,192)
대전광역시	14,018	(14,018)	48,074	(48,074)	9,942	(9,942)	6	(6)	345,823	(373,090)	18,207	(18,207)	420,469	(420,469)	153,020	(153,020)	1,009,559	(1,036,826)
울산광역시	349,040	(349,040)	73,066	(73,066)	186,241	(186,241)	10,855,280	(10,855,280)	265,043	(299,031)	16,595	(16,595)	333,372	(333,372)	934,183	(934,183)	13,012,820	(13,046,808)
경기도	323,880	(323,880)	381,762	(381,762)	171,178	(171,178)	7,514	(7,514)	2,444,652	(2,736,924)	98,625	(98,625)	4,032,468	(4,032,468)	32,035,978	(32,035,978)	39,496,056	(39,788,328)
강원도	16,224	(16,224)	87,223	(87,223)	18,383	(18,383)			437,098	(485,135)	19,560	(19,560)	891,534	(891,534)	8,515,401	(8,515,401)	9,985,423	(10,033,460)
충청북도	5,039	(5,039)	72,786	(72,786)	42,543	(42,543)			452,705	(500,659)	15,651	(15,651)	961,116	(961,116)	10,933,527	(10,933,527)	12,483,368	(12,531,322)
충청남도	133,824	(133,824)	115,917	(115,917)	114,925	(114,925)	2,258,043	(2,258,043)	497,962	(550,858)	30,876	(30,876)	1,278,238	(1,278,238)	26,576,967	(26,576,967)	31,006,751	(31,059,647)
전라북도	6,035	(6,035)	87,005	(87,005)	96,681	(96,681)	508,541	(508,541)	474,847	(525,009)	19,546	(19,546)	1,370,515	(1,370,515)	20,312,124	(20,312,124)	22,875,294	(22,925,456)
전라남도	78,276	(78,276)	146,285	(146,285)	67,263	(67,263)	12,125,262	(12,125,262)	430,145	(478,862)	36,801	(36,801)	1,276,192	(1,276,192)	25,901,963	(25,901,963)	40,062,187	(40,110,904)
경상북도	2,279	(2,279)	136,813	(136,813)	137,141	(137,141)	874,784	(874,784)	701,290	(775,530)	38,021	(38,021)	1,250,188	(1,250,188)	22,815,256	(22,815,256)	25,955,773	(26,030,012)
경상남도	17,280	(17,280)	125,592	(125,592)	93,226	(93,226)			752,643	(831,074)	33,594	(33,594)	1,364,746	(1,364,746)	15,592,480	(15,592,480)	17,979,561	(18,057,993)
제주도	32,070	(32,070)	30,505	(30,505)	1,600	(1,600)	9,390	(9,390)	129,173	(141,192)	8,177	(8,177)	220,392	(220,392)	4,694,954	(4,694,954)	5,126,260	(5,138,279)
수도권 대기관리권역	537,060	(537,060)	725,436	(725,436)	214,535	(214,535)	2,513,411	(2,513,411)	4,439,465	(4,952,196)	191,178	(191,178)	7,234,145	(7,234,145)	23,520,029	(23,520,029)	39,375,257	(39,887,888)
수도권	537,060	(537,060)	778,562	(778,562)	245,219	(245,219)	2,518,760	(2,518,760)	4,792,759	(5,344,586)	199,400	(199,400)	7,882,037	(7,882,037)	33,391,697	(33,391,697)	50,345,494	(50,897,321)
전국	1,207,452	(1,207,452)	1,978,180	(1,978,180)	1,138,975	(1,138,975)	29,154,836	(29,154,836)	10,673,411	(11,818,682)	525,730	(525,730)	19,398,999	(19,398,999)	171,223,574	(171,223,574)	235,301,138	(236,446,410)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7. 2002년 시도별 대분류별 배출량

7.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	674,756	(674,756)	9,657,447	(9,657,543)	340,511	(340,511)			152,797,275	(161,506,027)	7,119,466	(7,119,466)	156,790	(156,790)	170,746,245	(179,455,094)
부산광역시	22,222	(22,222)	2,700,051	(2,699,923)	1,014,007	(1,011,262)	24,554	(24,554)	48,400,697	(49,899,316)	4,664,456	(4,664,456)	109,947	(109,947)	56,935,934	(58,431,679)
대구광역시	126,788	(126,788)	1,850,984	(1,850,887)	543,845	(543,742)	1,245	(1,245)	28,514,502	(29,836,796)	1,650,420	(1,650,420)	88,295	(88,295)	32,776,079	(34,098,173)
인천광역시	5,246,848	(5,246,848)	868,407	(868,407)	1,104,560	(1,103,781)	431,512	(431,512)	36,774,919	(38,737,690)	3,758,280	(3,758,280)	95,101	(95,101)	48,279,627	(50,241,620)
광주광역시			1,895,857	(1,895,857)	115,582	(115,582)			19,466,259	(20,611,115)	1,025,316	(1,025,316)	70,313	(70,313)	22,573,328	(23,718,184)
대전광역시	91,487	(91,487)	1,962,121	(1,962,121)	92,965	(92,958)	476	(476)	15,930,094	(16,671,857)	1,377,542	(1,377,542)	101,665	(101,665)	19,556,350	(20,298,106)
울산광역시	2,737,291	(2,737,291)	532,326	(532,326)	2,226,856	(2,217,917)	10,880,140	(11,886,476)	14,496,220	(15,325,790)	1,608,417	(1,608,417)	90,267	(90,267)	32,571,518	(34,398,484)
경기도	4,174,386	(4,174,386)	7,718,366	(7,718,302)	2,147,927	(2,145,542)	73,544	(73,544)	120,222,168	(127,548,798)	9,243,350	(9,243,350)	648,916	(648,916)	144,228,657	(151,552,837)
강원도	630,708	(630,708)	6,215,738	(6,215,802)	1,235,682	(1,233,764)	2,662	(2,662)	21,694,436	(23,074,896)	1,719,995	(1,719,995)	15,326	(15,326)	31,514,547	(32,893,153)
충청북도	26,754	(26,754)	5,301,429	(5,301,365)	930,775	(928,168)	179	(179)	25,431,088	(26,802,507)	2,461,407	(2,461,407)	124,634	(124,634)	34,276,266	(35,645,014)
충청남도	7,314,755	(7,314,755)	2,115,824	(2,115,953)	950,427	(948,180)	1,202,198	(1,202,198)	24,371,401	(25,847,054)	3,665,072	(3,665,072)	103,701	(103,701)	39,723,379	(41,196,912)
전라북도	91,614	(91,614)	2,143,701	(2,143,540)	669,764	(669,680)	96,879	(96,879)	27,475,884	(29,105,646)	2,247,402	(2,247,402)	88,035	(88,035)	32,813,280	(34,442,797)
전라남도	924,972	(924,972)	2,290,298	(2,290,234)	1,313,246	(1,305,800)	7,379,870	(7,547,675)	24,828,835	(26,557,616)	4,027,427	(4,027,427)	49,198	(49,198)	40,813,846	(42,702,921)
경상북도	134,950	(134,950)	7,270,569	(7,270,376)	1,563,180	(1,561,579)	1,654,269	(1,836,879)	38,680,317	(40,877,360)	4,786,326	(4,786,326)	62,488	(62,488)	54,152,100	(56,529,960)
경상남도	4,386,024	(4,386,024)	1,941,328	(1,941,393)	838,695	(832,794)	3,519	(3,519)	40,604,334	(43,156,202)	4,052,435	(4,052,435)	170,198	(170,198)	51,996,534	(54,542,565)
제주도	940,849	(940,849)	326,832	(326,864)	10,713	(10,713)	179	(179)	7,402,431	(8,029,567)	1,122,887	(1,122,887)	5,354	(5,354)	9,809,243	(10,436,412)
수도권 대기관리권역	10,095,990	(10,095,990)	17,520,055	(17,520,131)	3,368,572	(3,365,411)	439,386	(439,386)	295,444,965	(312,745,874)	19,234,631	(19,234,631)	897,099	(897,099)	347,000,699	(364,298,522)
수도권	10,095,990	(10,095,990)	18,244,220	(18,244,252)	3,592,999	(3,588,835)	505,057	(505,057)	308,794,361	(327,792,515)	20,121,095	(20,121,095)	900,807	(900,807)	363,254,529	(381,248,551)
전국	27,524,404	(27,524,404)	54,791,279	(54,790,893)	15,096,737	(15,061,975)	21,751,227	(23,107,877)	647,090,860	(683,588,237)	54,530,197	(54,530,197)	1,980,226	(1,980,226)	822,766,932	(860,583,910)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	884,195	(549,440)	20,638,469	(16,106,465)	1,110,214	(1,492,315)			64,190,386	(65,402,886)	22,713,286	(22,713,286)	817,428	(817,428)	110,353,980	(107,081,821)
부산광역시	666,659	(239,108)	6,246,214	(5,717,497)	4,280,129	(3,345,093)	1,055,815	(1,055,815)	29,163,377	(32,102,950)	23,208,255	(23,208,255)	745,989	(745,989)	65,366,439	(66,414,707)
대구광역시	2,709,532	(1,184,772)	4,343,207	(4,067,603)	3,827,764	(3,904,376)	53,556	(53,556)	20,257,171	(19,636,022)	5,068,538	(5,068,538)	459,953	(459,953)	36,719,722	(34,374,821)
인천광역시	12,639,193	(11,918,888)	4,623,630	(3,874,143)	8,014,055	(7,775,856)	1,372,936	(1,372,936)	21,403,836	(23,073,831)	13,440,137	(13,440,137)	624,004	(624,004)	62,117,792	(62,079,795)
광주광역시			2,339,421	(1,983,934)	592,806	(537,397)			11,015,975	(11,303,478)	3,194,962	(3,194,962)	322,488	(322,488)	17,465,653	(17,342,260)
대전광역시	1,012,457	(895,048)	2,741,903	(2,301,581)	745,054	(720,703)	20,478	(20,478)	12,593,859	(12,166,030)	4,352,667	(4,352,667)	1,536,739	(1,536,739)	23,003,157	(21,993,247)
울산광역시	22,976,999	(20,138,215)	3,336,887	(3,242,887)	16,302,229	(18,351,652)	4,487,598	(4,487,598)	10,661,806	(10,868,788)	9,230,029	(9,230,029)	798,790	(798,790)	67,794,339	(67,117,958)
경기도	24,533,179	(20,853,204)	18,223,034	(15,967,440)	13,312,441	(12,864,274)	3,162,404	(3,162,404)	95,634,682	(96,707,202)	31,679,566	(31,679,566)	4,832,258	(4,832,258)	191,377,563	(186,066,348)
강원도	17,123,269	(5,208,758)	4,212,334	(3,683,981)	25,384,842	(33,665,778)	114,483	(114,483)	19,035,427	(19,203,878)	5,804,705	(5,804,705)	97,597	(97,597)	71,772,658	(67,779,181)
충청북도	177,330	(177,330)	3,644,900	(3,080,926)	15,481,055	(19,609,886)	7,679	(7,679)	25,651,803	(25,207,447)	6,532,124	(6,532,124)	2,294,542	(2,294,542)	53,789,433	(56,909,934)
충청남도	127,695,040	(51,328,573)	3,816,241	(3,775,286)	7,978,293	(7,932,481)	1,175,529	(1,175,529)	24,595,047	(24,234,445)	11,447,777	(11,447,777)	791,221	(791,221)	177,499,148	(100,685,312)
전라북도	2,029,701	(871,203)	3,749,417	(3,607,611)	6,606,654	(6,657,542)	4,165,792	(4,165,792)	24,082,672	(23,948,324)	6,467,419	(6,467,419)	1,700,845	(1,700,845)	48,802,500	(47,418,736)
전라남도	10,643,781	(7,193,356)	5,185,980	(5,148,150)	6,765,350	(6,234,480)	24,558,452	(26,051,422)	24,223,412	(25,006,325)	17,109,943	(17,109,943)	650,529	(650,529)	89,137,448	(87,394,205)
경상북도	1,847,151	(751,818)	5,823,193	(5,077,349)	11,680,438	(12,009,713)	12,446,491	(13,627,494)	35,720,397	(35,638,310)	13,456,592	(13,456,592)	623,926	(623,926)	81,598,189	(81,185,202)
경상남도	68,047,590	(24,867,532)	4,854,719	(4,838,152)	5,553,727	(5,360,188)	151,330	(151,330)	38,635,249	(38,376,205)	13,743,039	(13,743,039)	1,583,917	(1,583,917)	132,569,571	(88,920,363)
제주도	3,017,941	(2,817,581)	1,368,461	(1,745,815)	40,577	(61,755)	7,679	(7,679)	5,242,769	(5,652,735)	3,195,449	(3,195,449)	24,164	(24,164)	12,897,041	(13,505,179)
수도권 대기관리권역	38,056,567	(33,321,533)	41,680,409	(34,108,467)	20,252,210	(19,924,076)	1,711,515	(1,711,515)	168,243,141	(170,372,416)	65,303,563	(65,303,563)	6,222,483	(6,222,483)	339,449,888	(330,964,053)
수도권	38,056,567	(33,321,533)	43,485,133	(35,948,048)	22,436,711	(22,132,445)	4,535,340	(4,535,340)	181,228,905	(185,183,919)	67,832,988	(67,832,988)	6,273,691	(6,273,691)	363,849,336	(355,227,964)
전국	296,004,018	(148,994,827)	95,148,010	(84,218,821)	127,675,629	(140,523,490)	52,780,222	(55,454,195)	462,107,871	(468,528,855)	190,644,489	(190,644,489)	17,904,393	(17,904,393)	1,242,264,632	(1,106,269,070)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	384,871	(501,957)	5,273,773	(6,160,938)	117,063	(146,681)			897,391	(893,697)	330,720	(330,720)	121,730	(121,730)	7,125,549	(8,155,723)
부산광역시	793,768	(793,768)	6,810,375	(7,150,093)	2,008,238	(2,437,958)	708,056	(797,392)	410,650	(429,118)	11,767,958	(11,767,958)	82,833	(82,833)	22,581,878	(23,459,121)
대구광역시	2,941,582	(2,981,156)	1,482,674	(1,801,844)	2,623,232	(3,106,401)	39,853	(61,503)	279,008	(284,034)	76,085	(76,085)	68,556	(68,556)	7,510,991	(8,379,578)
인천광역시	551,945	(686,410)	1,432,778	(1,476,984)	5,229,530	(6,223,247)	793,387	(1,053,841)	306,988	(316,087)	4,298,554	(4,298,554)	71,959	(71,959)	12,685,141	(14,127,083)
광주광역시			715,109	(765,835)	213,381	(273,677)	4,694	(25,099)	149,179	(152,617)	47,347	(47,347)	55,235	(55,235)	1,184,945	(1,319,810)
대전광역시	692,242	(912,017)	655,606	(686,885)	494,457	(650,031)	18,543	(41,189)	166,524	(170,292)	67,693	(67,693)	64,199	(64,199)	2,159,265	(2,592,306)
울산광역시	11,871,757	(18,326,316)	8,454,250	(10,322,486)	11,627,656	(13,897,818)	21,478,362	(25,645,538)	139,971	(144,141)	5,704,454	(5,704,454)	65,279	(65,279)	59,341,729	(74,106,033)
경기도	11,531,038	(13,723,857)	7,536,893	(8,695,217)	13,436,400	(16,959,989)	2,125,121	(2,411,546)	1,336,513	(1,360,700)	3,248,761	(3,248,761)	482,603	(482,603)	39,697,329	(46,882,672)
강원도	3,787,395	(3,560,927)	2,749,361	(2,895,777)	16,921,436	(17,301,773)	151,384	(189,458)	253,953	(258,726)	1,480,616	(1,480,616)	11,640	(11,640)	25,355,784	(25,698,917)
충청북도	56,676	(74,663)	2,471,394	(2,730,261)	12,862,602	(13,862,518)	979,416	(1,094,384)	338,450	(348,746)	117,033	(117,033)	72,695	(72,695)	16,898,266	(18,300,301)
충청남도	48,432,753	(25,693,951)	1,307,190	(1,490,256)	6,690,335	(8,720,961)	4,231,464	(4,400,183)	323,234	(333,234)	2,168,935	(2,168,935)	76,845	(76,845)	63,230,756	(42,884,366)
전라북도	1,984,001	(2,057,219)	2,412,108	(2,656,691)	6,871,413	(8,837,760)	2,746,093	(2,891,670)	312,557	(318,862)	788,959	(788,959)	50,176	(50,176)	15,165,307	(17,601,335)
전라남도	16,484,745	(17,415,672)	7,248,453	(7,853,440)	5,025,465	(5,866,434)	26,072,380	(31,754,821)	322,891	(333,627)	8,454,368	(8,454,368)	32,430	(32,430)	63,840,732	(71,710,791)
경상북도	4,368,858	(4,425,415)	3,370,507	(3,699,761)	11,828,885	(14,942,735)	15,329,646	(18,196,672)	475,822	(489,746)	1,924,232	(1,924,232)	44,152	(44,152)	37,342,102	(43,722,713)
경상남도	86,502,561	(86,756,595)	2,207,653	(2,641,277)	4,848,344	(6,134,721)	122,695	(227,709)	518,584	(534,325)	2,996,514	(2,996,514)	121,946	(121,946)	97,318,297	(99,413,086)
제주도	1,366,031	(1,793,283)	619,564	(730,099)	35,779	(46,165)	5,516	(7,755)	77,033	(79,858)	738,169	(738,169)	4,211	(4,211)	2,846,303	(3,399,540)
수도권 대기관리권역	12,467,854	(14,912,224)	13,697,394	(15,694,547)	15,041,396	(18,554,677)	1,077,820	(1,615,291)	2,338,092	(2,361,826)	7,842,739	(7,842,739)	673,880	(673,880)	53,138,975	(61,655,185)
수도권	12,467,854	(14,912,224)	14,243,444	(16,333,139)	18,782,994	(23,329,917)	2,918,508	(3,465,387)	2,540,892	(2,570,484)	7,878,035	(7,878,035)	676,292	(676,292)	59,508,019	(69,165,478)
전국	191,750,224	(179,703,206)	54,747,689	(61,757,843)	100,834,219	(119,408,870)	74,806,608	(88,798,759)	6,308,748	(6,447,812)	44,210,397	(44,210,397)	1,426,489	(1,426,489)	474,084,374	(501,753,376)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.4. 총먼지(TSP) 배출량

비산먼지 제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	16,254	(16,254)	487,429	(488,509)	6,162	(7,905)			3,399,033	(3,484,621)	875,258	(875,258)	20,307	(20,307)	4,804,442	(4,892,854)
부산광역시	1,333,317	(1,333,317)	192,081	(192,708)	228,879	(226,822)	28,502	(28,502)	1,680,285	(1,962,497)	1,190,072	(1,190,072)	17,400	(17,400)	4,668,536	(4,951,318)
대구광역시	168,298	(168,298)	242,034	(242,418)	647,291	(647,691)	1,631	(1,631)	1,163,070	(1,211,193)	210,848	(210,848)	11,429	(11,429)	2,444,602	(2,493,508)
인천광역시	164,975	(164,975)	69,019	(69,264)	781,574	(780,521)	160,569	(160,569)	1,344,799	(1,532,738)	534,425	(534,425)	13,824	(13,824)	3,069,185	(3,256,317)
광주광역시			71,640	(71,811)	7,385	(7,429)	218	(218)	642,463	(696,835)	128,246	(128,246)	8,300	(8,300)	858,252	(912,838)
대전광역시	5,318	(5,318)	63,597	(63,836)	13,975	(14,006)	625	(625)	707,230	(746,500)	191,826	(191,826)	31,583	(31,583)	1,014,153	(1,053,693)
울산광역시	567,064	(567,064)	568,445	(568,575)	9,055,961	(9,061,714)	2,004,718	(4,632,614)	612,034	(666,110)	510,304	(510,304)	17,694	(17,694)	13,336,220	(16,024,075)
경기도	446,351	(446,351)	754,718	(755,850)	1,185,351	(1,185,979)	120,537	(120,537)	5,795,345	(6,411,400)	1,441,888	(1,441,888)	110,553	(110,553)	9,854,744	(10,472,558)
강원도	227,897	(227,897)	202,856	(203,226)	4,085,517	(3,949,579)	1,467,206	(1,467,205)	1,169,070	(1,291,380)	341,922	(341,922)	2,309	(2,309)	7,496,776	(7,483,518)
충청북도	6,095	(6,095)	253,221	(253,501)	3,497,869	(3,339,581)	1,381,901	(1,381,901)	1,536,082	(1,698,674)	390,276	(390,276)	46,229	(46,229)	7,111,673	(7,116,257)
충청남도	2,627,878	(2,627,878)	154,669	(155,039)	213,048	(214,137)	338,398	(338,398)	1,487,812	(1,640,589)	696,551	(696,551)	18,015	(18,015)	5,536,372	(5,690,607)
전라북도	23,873	(23,873)	208,743	(209,110)	353,195	(353,333)	98,600	(98,600)	1,434,139	(1,584,822)	405,993	(405,993)	34,119	(34,119)	2,558,663	(2,709,850)
전라남도	248,791	(248,791)	277,150	(277,594)	898,455	(900,043)	4,372,972	(4,143,006)	1,476,223	(1,685,338)	1,080,230	(1,080,230)	13,580	(13,580)	8,367,401	(8,348,583)
경상북도	206,539	(206,539)	271,485	(271,921)	1,150,526	(1,162,821)	2,949,416	(2,778,629)	2,193,882	(2,421,304)	887,587	(887,587)	13,547	(13,547)	7,672,984	(7,742,349)
경상남도	1,555,465	(1,555,465)	177,438	(178,160)	165,315	(166,997)	6,250	(6,250)	2,270,838	(2,518,119)	773,050	(773,050)	34,438	(34,438)	4,982,795	(5,232,479)
제주도	26,049	(26,049)	106,043	(106,174)	1,049	(1,084)	238	(238)	312,402	(362,529)	141,639	(141,639)	625	(625)	588,044	(638,337)
수도권 대기관리권역	627,580	(627,580)	1,254,897	(1,257,182)	1,785,096	(1,786,360)	211,320	(211,320)	9,607,890	(10,397,558)	2,710,674	(2,710,674)	143,621	(143,621)	16,341,078	(17,134,296)
수도권	627,580	(627,580)	1,311,166	(1,313,624)	1,973,086	(1,974,405)	281,106	(281,106)	10,539,177	(11,428,758)	2,851,570	(2,851,570)	144,684	(144,684)	17,728,371	(18,621,729)
전국	7,624,165	(7,624,165)	4,100,569	(4,107,696)	22,289,553	(22,019,641)	12,931,780	(15,158,923)	27,224,707	(29,914,649)	9,800,116	(9,800,116)	393,952	(393,952)	84,364,843	(89,019,143)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	16,254	(16,254)	487,429	(488,509)	6,162	(7,905)			192,167,135	(194,277,289)	875,258	(875,258)	20,307	(20,307)	193,572,545	(195,685,521)
부산광역시	1,333,317	(1,333,317)	192,081	(192,708)	226,879	(226,822)	28,502	(28,502)	83,231,050	(83,517,485)	1,190,072	(1,190,072)	17,400	(17,400)	86,219,301	(86,506,306)
대구광역시	168,298	(168,298)	242,034	(242,418)	647,291	(647,691)	1,631	(1,631)	67,157,738	(67,703,956)	210,848	(210,848)	11,429	(11,429)	68,439,270	(68,986,271)
인천광역시	164,975	(164,975)	69,019	(69,264)	781,574	(780,521)	160,569	(160,569)	63,674,613	(64,209,901)	534,425	(534,425)	13,824	(13,824)	65,399,000	(65,933,479)
광주광역시			71,640	(71,811)	7,385	(7,429)	218	(218)	33,175,285	(33,544,355)	128,246	(128,246)	8,300	(8,300)	33,391,075	(33,760,358)
대전광역시	5,318	(5,318)	63,597	(63,836)	13,975	(14,006)	625	(625)	39,400,920	(39,575,695)	191,826	(191,826)	31,583	(31,583)	39,707,843	(39,882,888)
울산광역시	567,064	(567,064)	568,445	(568,575)	9,055,961	(9,061,714)	2,004,718	(4,632,614)	31,645,537	(31,806,782)	510,304	(510,304)	17,694	(17,694)	44,369,723	(47,164,748)
경기도	446,351	(446,351)	754,718	(755,850)	1,185,351	(1,185,979)	120,537	(120,537)	303,771,663	(306,678,099)	1,441,888	(1,441,888)	110,553	(110,553)	307,831,062	(310,739,257)
강원도	227,897	(227,897)	202,856	(203,226)	4,085,517	(3,949,579)	1,467,206	(1,467,205)	60,098,810	(60,474,736)	341,922	(341,922)	2,309	(2,309)	66,426,516	(66,666,874)
충청북도	6,095	(6,095)	253,221	(253,501)	3,497,869	(3,339,581)	1,381,901	(1,381,901)	72,141,090	(72,485,979)	390,276	(390,276)	46,229	(46,229)	77,716,681	(77,903,562)
충청남도	2,627,878	(2,627,878)	154,669	(155,039)	213,048	(214,137)	338,398	(338,398)	75,633,311	(76,147,392)	696,551	(696,551)	18,015	(18,015)	79,681,871	(80,197,410)
전라북도	23,873	(23,873)	208,743	(209,110)	353,195	(353,333)	98,600	(98,600)	70,089,029	(70,440,268)	405,993	(405,993)	34,119	(34,119)	71,213,553	(71,565,296)
전라남도	248,791	(248,791)	277,150	(277,594)	898,455	(900,043)	4,372,972	(4,143,006)	72,538,140	(72,933,455)	1,080,230	(1,080,230)	13,580	(13,580)	79,429,318	(79,596,700)
경상북도	206,539	(206,539)	271,485	(271,921)	1,150,526	(1,162,821)	2,949,416	(2,778,629)	107,510,886	(107,993,013)	887,587	(887,587)	13,547	(13,547)	112,989,987	(113,314,057)
경상남도	1,555,465	(1,555,465)	177,438	(178,160)	165,315	(166,997)	6,250	(6,250)	112,052,692	(112,723,007)	773,050	(773,050)	34,438	(34,438)	114,764,648	(115,437,367)
제주도	26,049	(26,049)	106,043	(106,174)	1,049	(1,084)	238	(238)	19,092,880	(19,580,304)	141,639	(141,639)	625	(625)	19,368,523	(19,856,113)
수도권 대기관리권역	627,580	(627,580)	1,254,897	(1,257,182)	1,785,096	(1,786,360)	211,320	(211,320)	511,254,130	(516,496,593)	2,710,674	(2,710,674)	143,621	(143,621)	517,987,318	(523,238,330)
수도권	627,580	(627,580)	1,311,168	(1,313,624)	1,973,086	(1,974,405)	281,108	(281,108)	559,613,412	(565,165,288)	2,851,570	(2,851,570)	144,684	(144,684)	566,802,606	(572,358,258)
전국	7,624,165	(7,624,165)	4,100,569	(4,107,696)	22,289,553	(22,018,641)	12,931,780	(15,158,923)	1,403,380,779	(1,414,091,715)	9,800,116	(9,800,116)	393,952	(393,952)	1,460,520,915	(1,473,196,209)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.6. 미세먼지(PM₁₀) 배출량

비산먼지 제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	13,335	(13,335)	340,660	(341,651)	4,905	(6,551)			3,399,033	(3,484,621)	875,202	(875,202)	3,858	(3,858)	4,636,994	(4,725,219)
부산광역시	893,323	(893,323)	125,218	(125,793)	150,530	(150,535)	25,734	(25,734)	1,680,285	(1,962,497)	880,172	(880,172)	3,306	(3,306)	3,758,568	(4,041,360)
대구광역시	112,321	(112,321)	154,166	(154,518)	431,591	(431,972)	1,419	(1,419)	1,163,070	(1,211,193)	210,838	(210,838)	2,171	(2,171)	2,075,576	(2,124,432)
인천광역시	147,313	(147,313)	49,965	(50,190)	513,060	(512,405)	86,855	(86,855)	1,344,799	(1,532,738)	424,063	(424,063)	2,627	(2,627)	2,568,683	(2,756,191)
광주광역시			48,177	(48,333)	4,711	(4,753)	133	(133)	642,463	(696,835)	128,236	(128,236)	1,577	(1,577)	825,296	(879,866)
대전광역시	3,776	(3,776)	43,930	(44,149)	8,709	(8,738)	543	(543)	707,230	(746,500)	191,826	(191,826)	6,001	(6,001)	962,014	(1,001,533)
울산광역시	395,897	(395,897)	354,011	(354,131)	6,061,246	(6,066,758)	1,048,753	(2,638,872)	612,034	(666,110)	359,171	(359,171)	3,362	(3,362)	8,834,474	(10,484,300)
경기도	322,344	(322,344)	493,179	(494,217)	784,405	(785,067)	94,891	(94,891)	5,795,345	(6,411,400)	1,365,892	(1,365,892)	21,005	(21,005)	8,877,063	(9,494,817)
강원도	152,727	(152,727)	131,590	(131,929)	2,736,333	(2,645,281)	8,984	(8,984)	1,169,070	(1,291,380)	304,118	(304,118)	439	(439)	4,503,259	(4,534,857)
충청북도	3,780	(3,780)	162,765	(163,022)	2,341,201	(2,235,336)	88,331	(88,331)	1,536,082	(1,698,674)	390,273	(390,273)	8,784	(8,784)	4,531,216	(4,588,200)
충청남도	1,769,107	(1,769,107)	98,573	(98,912)	137,450	(138,551)	180,714	(180,714)	1,487,812	(1,640,589)	642,623	(642,623)	3,423	(3,423)	4,319,702	(4,473,918)
전라북도	15,997	(15,997)	132,801	(133,139)	231,454	(231,586)	93,085	(93,085)	1,434,139	(1,584,822)	387,274	(387,274)	6,483	(6,483)	2,301,232	(2,452,384)
전라남도	165,612	(165,612)	174,165	(174,574)	603,807	(605,418)	2,804,773	(2,619,255)	1,476,223	(1,685,338)	857,656	(857,656)	2,580	(2,580)	6,084,817	(6,110,434)
경상북도	138,572	(138,572)	176,513	(176,913)	766,105	(778,918)	1,938,842	(1,799,681)	2,193,882	(2,421,304)	841,273	(841,273)	2,574	(2,574)	6,057,760	(6,159,235)
경상남도	1,044,853	(1,044,853)	113,829	(114,491)	104,884	(107,174)	5,009	(5,009)	2,270,838	(2,518,119)	697,073	(697,073)	6,543	(6,543)	4,243,030	(4,493,262)
제주도	17,521	(17,521)	65,889	(66,009)	663	(696)	206	(206)	312,402	(362,529)	123,134	(123,134)	119	(119)	519,933	(570,213)
수도권 대기관리권역	482,993	(482,993)	847,844	(849,939)	1,178,194	(1,179,795)	116,848	(116,848)	9,607,890	(10,397,558)	2,524,262	(2,524,262)	27,288	(27,288)	14,785,320	(15,578,683)
수도권	482,993	(482,993)	883,804	(886,057)	1,302,371	(1,304,024)	181,746	(181,746)	10,539,177	(11,428,758)	2,665,158	(2,665,158)	27,490	(27,490)	16,082,740	(16,976,227)
전국	5,196,477	(5,196,477)	2,665,432	(2,671,970)	14,881,056	(14,709,738)	6,378,272	(7,643,713)	27,224,707	(29,914,649)	8,678,822	(8,678,822)	74,851	(74,851)	65,099,618	(68,890,221)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	13,335	(13,335)	340,660	(341,651)	4,905	(6,551)			38,584,085	(39,042,929)	875,202	(875,202)	3,858	(3,858)	39,822,047	(40,283,527)
부산광역시	893,323	(893,323)	125,218	(125,793)	150,530	(150,535)	25,734	(25,734)	16,921,871	(17,205,283)	880,172	(880,172)	3,306	(3,306)	19,000,155	(19,284,146)
대구광역시	112,321	(112,321)	154,166	(154,518)	431,591	(431,972)	1,419	(1,419)	13,495,062	(13,635,013)	210,838	(210,838)	2,171	(2,171)	14,407,568	(14,548,252)
인천광역시	147,313	(147,313)	49,965	(50,190)	513,060	(512,405)	86,855	(86,855)	12,989,867	(13,241,840)	424,063	(424,063)	2,627	(2,627)	14,213,751	(14,465,293)
광주광역시			48,177	(48,333)	4,711	(4,753)	133	(133)	6,721,210	(6,833,324)	128,236	(128,236)	1,577	(1,577)	6,904,044	(7,016,356)
대전광역시	3,776	(3,776)	43,930	(44,149)	8,709	(8,738)	543	(543)	7,930,794	(7,994,690)	191,826	(191,826)	6,001	(6,001)	8,185,579	(8,249,723)
울산광역시	395,897	(395,897)	354,011	(354,131)	6,061,246	(6,066,758)	1,048,753	(2,638,872)	6,405,692	(6,479,474)	359,171	(359,171)	3,362	(3,362)	14,628,133	(16,297,664)
경기도	322,344	(322,344)	493,179	(494,217)	784,405	(785,067)	94,891	(94,891)	61,450,249	(62,488,038)	1,365,892	(1,365,892)	21,005	(21,005)	64,531,966	(65,571,455)
강원도	152,727	(152,727)	131,590	(131,929)	2,736,333	(2,645,281)	8,984	(8,984)	12,180,808	(12,349,686)	304,118	(304,118)	439	(439)	15,514,998	(15,593,163)
충청북도	3,780	(3,780)	162,765	(163,022)	2,341,201	(2,235,336)	88,331	(88,331)	14,740,884	(14,936,976)	390,273	(390,273)	8,784	(8,784)	17,736,018	(17,826,502)
충청남도	1,769,107	(1,769,107)	98,573	(98,912)	137,450	(138,551)	180,714	(180,714)	15,358,871	(15,578,163)	642,623	(642,623)	3,423	(3,423)	18,190,760	(18,411,492)
전라북도	15,997	(15,997)	132,801	(133,139)	231,454	(231,586)	93,085	(93,085)	14,273,819	(14,461,567)	387,274	(387,274)	6,483	(6,483)	15,140,912	(15,329,129)
전라남도	165,612	(165,612)	174,165	(174,574)	603,807	(605,418)	2,804,773	(2,619,255)	14,782,390	(15,025,547)	857,656	(857,656)	2,580	(2,580)	19,390,984	(19,450,644)
경상북도	138,572	(138,572)	176,513	(176,913)	766,105	(778,918)	1,938,842	(1,799,681)	21,902,981	(22,176,443)	841,273	(841,273)	2,574	(2,574)	25,766,859	(25,914,374)
경상남도	1,044,853	(1,044,853)	113,829	(114,491)	104,884	(107,174)	5,009	(5,009)	22,801,727	(23,126,340)	697,073	(697,073)	6,543	(6,543)	24,773,919	(25,101,483)
제주도	17,521	(17,521)	65,889	(66,009)	663	(696)	206	(206)	3,823,847	(3,954,624)	123,134	(123,134)	119	(119)	4,031,378	(4,162,309)
수도권 대기권리권역	482,993	(482,993)	847,844	(849,939)	1,178,194	(1,179,795)	116,848	(116,848)	103,218,995	(104,829,091)	2,524,262	(2,524,262)	27,288	(27,288)	108,396,424	(110,010,216)
수도권	482,993	(482,993)	883,804	(886,057)	1,302,371	(1,304,024)	181,746	(181,746)	113,024,201	(114,772,807)	2,665,158	(2,665,158)	27,490	(27,490)	118,567,763	(120,320,275)
전국	5,196,477	(5,196,477)	2,665,432	(2,671,970)	14,881,056	(14,709,738)	6,378,272	(7,643,713)	284,364,159	(288,529,937)	8,678,822	(8,678,822)	74,851	(74,851)	322,239,070	(327,505,509)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		에너지수송 및 저장		유기용제 사용		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	98,640	(98,640)	834,877	(834,877)	50,381	(50,381)			3,840,909	(3,840,909)	55,349,797	(52,862,447)	26,486,326	(27,694,459)	2,733,313	(2,733,313)	918,863	(918,863)	90,313,105	(89,033,889)
부산광역시	2,667	(2,667)	192,511	(192,511)	150,322	(150,185)	1,086,629	(1,086,629)	1,578,181	(1,578,181)	25,806,199	(24,380,899)	8,850,605	(9,004,243)	1,749,652	(1,749,652)	1,503,109	(1,503,109)	40,919,874	(39,648,075)
대구광역시	21,468	(21,468)	128,409	(128,409)	96,992	(96,987)	1,997,248	(1,997,248)	1,408,918	(1,408,918)	16,427,105	(15,703,492)	5,108,087	(5,175,052)	623,777	(623,777)	633,747	(633,747)	26,445,751	(25,789,098)
인천광역시	719,639	(719,639)	171,385	(171,385)	203,866	(203,791)	11,320,793	(11,320,793)	1,597,750	(1,597,750)	27,559,518	(26,197,719)	6,725,532	(7,055,162)	1,075,419	(1,075,419)	3,131,662	(3,131,662)	52,505,565	(51,473,321)
광주광역시			70,850	(70,850)	16,824	(16,824)	47,154	(47,154)	616,714	(616,714)	9,001,403	(8,589,505)	3,481,982	(3,594,572)	384,262	(384,262)	373,094	(373,094)	13,992,284	(13,692,975)
대전광역시	19,060	(19,060)	92,489	(92,489)	19,274	(19,273)	713,741	(713,741)	822,530	(822,530)	7,598,052	(7,221,619)	2,910,106	(2,938,487)	560,692	(560,692)	4,405,019	(4,405,019)	17,140,962	(16,792,909)
울산광역시	569,403	(569,403)	84,473	(84,473)	419,252	(418,805)	43,078,905	(43,078,906)	2,058,881	(2,058,881)	27,852,068	(25,489,086)	2,708,990	(2,789,840)	607,660	(607,660)	1,930,521	(1,930,521)	79,310,064	(77,027,575)
경기도	658,594	(658,594)	589,944	(589,943)	378,172	(378,053)	4,536,934	(4,536,934)	6,458,035	(6,458,035)	95,970,454	(91,248,860)	21,627,686	(22,430,324)	3,620,785	(3,620,785)	9,303,154	(9,303,154)	143,143,757	(139,224,682)
강원도	287,608	(287,608)	61,680	(61,680)	163,456	(162,526)	1,979,808	(1,979,808)	958,042	(958,042)	7,550,990	(7,187,752)	3,891,488	(4,007,256)	613,510	(613,510)	435,652	(435,652)	15,942,234	(15,693,835)
충청북도	6,851	(6,851)	73,979	(73,978)	147,086	(145,878)	1,520,160	(1,520,160)	663,502	(663,502)	11,636,792	(11,070,649)	4,722,095	(4,797,747)	911,706	(911,706)	6,778,351	(6,778,351)	26,460,522	(25,968,822)
충청남도	1,055,031	(1,055,031)	79,628	(79,628)	202,533	(202,420)	15,894,666	(15,894,666)	1,349,128	(1,349,128)	16,294,961	(15,525,955)	4,456,551	(4,541,813)	1,326,936	(1,326,936)	1,697,893	(1,697,893)	42,357,326	(41,673,471)
전라북도	25,006	(25,006)	91,624	(91,623)	152,361	(152,357)	2,956,776	(2,956,776)	917,100	(917,100)	9,862,697	(9,415,355)	4,976,439	(5,099,393)	781,965	(781,965)	5,145,167	(5,145,167)	24,909,136	(24,584,744)
전라남도	166,594	(166,594)	102,869	(102,869)	201,348	(200,976)	35,164,937	(35,164,937)	1,582,050	(1,582,050)	14,685,604	(13,709,869)	4,621,257	(4,781,760)	1,405,016	(1,405,016)	1,948,778	(1,948,778)	59,878,452	(59,062,847)
경상북도	17,751	(17,751)	121,685	(121,685)	300,333	(300,228)	6,431,138	(6,431,138)	1,551,091	(1,551,091)	22,446,178	(21,327,011)	7,226,709	(7,401,134)	1,676,228	(1,676,228)	1,712,871	(1,712,871)	41,483,985	(40,539,137)
경상남도	533,222	(533,222)	125,197	(125,197)	150,095	(149,800)	1,026,406	(1,026,406)	1,534,409	(1,534,409)	45,082,172	(41,772,039)	7,639,824	(7,859,733)	1,475,224	(1,475,224)	3,861,001	(3,861,001)	61,427,551	(58,337,031)
제주도	117,227	(117,227)	29,455	(29,455)	1,904	(1,904)	349,342	(349,342)	231,553	(231,553)	3,015,383	(2,858,790)	1,298,532	(1,354,074)	289,371	(289,371)	83,218	(83,218)	5,415,984	(5,314,933)
수도권 대기권리권역	1,476,872	(1,476,872)	1,558,632	(1,558,632)	584,343	(584,148)	15,696,076	(15,696,076)	11,441,877	(11,441,877)	170,798,901	(162,682,789)	52,202,982	(54,518,738)	7,122,311	(7,122,311)	13,186,189	(13,186,189)	274,068,162	(268,247,632)
수도권	1,476,872	(1,476,872)	1,596,205	(1,596,205)	632,419	(632,225)	15,857,727	(15,857,727)	11,896,694	(11,896,694)	178,879,769	(170,309,026)	54,839,544	(57,179,945)	7,429,517	(7,429,517)	13,353,679	(13,353,679)	285,962,427	(279,731,891)
전국	4,298,761	(4,298,761)	2,851,052	(2,851,052)	2,654,199	(2,650,387)	128,104,636	(128,104,636)	27,168,793	(27,168,793)	396,139,372	(374,561,048)	116,732,119	(120,525,048)	19,835,516	(19,835,516)	43,862,103	(43,862,103)	741,646,551	(723,857,343)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

7.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		자연오염원		농업		배출원대분류 합계	
서울특별시	31,357	(31,357)	326,802	(326,802)	15,758	(15,758)	15,419	(15,419)	1,895,727	(2,000,222)	68,068	(68,068)	2,775,572	(2,775,572)	106,889	(106,889)	5,235,590	(5,340,085)
부산광역시	25	(25)	146,081	(146,081)	61,708	(61,269)	11	(11)	613,425	(635,976)	50,403	(50,403)	979,085	(979,085)	576,400	(576,400)	2,427,138	(2,449,250)
대구광역시	7,757	(7,757)	97,988	(97,988)	48,907	(48,890)			502,266	(521,611)	15,104	(15,104)	674,608	(674,608)	959,187	(959,187)	2,305,816	(2,325,145)
인천광역시	184,082	(184,082)	92,769	(92,769)	106,035	(105,923)	1,335,871	(1,335,871)	464,117	(491,417)	26,912	(26,912)	743,507	(743,507)	1,636,537	(1,636,537)	4,589,830	(4,617,018)
광주광역시			47,164	(47,164)	11,234	(11,234)	66	(66)	257,422	(267,108)	9,449	(9,449)	389,748	(389,748)	793,722	(793,722)	1,508,804	(1,518,490)
대전광역시	14,638	(14,638)	51,558	(51,558)	11,224	(11,223)			318,502	(330,442)	12,653	(12,653)	391,971	(391,971)	281,404	(281,404)	1,081,950	(1,093,889)
울산광역시	361,958	(361,958)	73,736	(73,736)	197,597	(196,166)	13,282,597	(13,282,597)	267,581	(284,895)	18,887	(18,887)	308,699	(308,699)	970,837	(970,837)	15,481,892	(15,497,775)
경기도	284,489	(284,489)	373,777	(373,777)	186,859	(186,477)	4,013	(4,013)	2,364,263	(2,509,336)	92,867	(92,867)	3,252,329	(3,252,329)	32,417,883	(32,417,883)	38,976,480	(39,121,171)
강원도	15,637	(15,637)	86,880	(86,880)	22,539	(22,526)			443,378	(469,397)	14,699	(14,699)	714,442	(714,442)	8,485,675	(8,485,675)	9,783,249	(9,809,257)
충청북도	4,281	(4,281)	76,079	(76,079)	44,031	(43,996)			459,256	(485,511)	17,146	(17,146)	754,071	(754,071)	10,333,753	(10,333,753)	11,688,616	(11,714,835)
충청남도	132,297	(132,297)	109,724	(109,724)	116,326	(115,967)	2,310,203	(2,310,203)	489,274	(517,371)	29,438	(29,438)	1,012,926	(1,012,926)	25,769,557	(25,769,557)	29,969,745	(29,997,482)
전라북도	6,128	(6,128)	100,002	(100,002)	92,002	(91,988)			471,436	(498,398)	17,615	(17,615)	1,138,893	(1,138,893)	13,516,174	(13,516,174)	15,342,250	(15,369,198)
전라남도	87,827	(87,827)	160,217	(160,217)	80,516	(79,324)	9,538,758	(9,538,758)	435,326	(461,841)	37,503	(37,503)	1,177,716	(1,177,716)	24,729,412	(24,729,412)	36,247,274	(36,272,598)
경상북도	2,952	(2,952)	142,134	(142,134)	159,543	(159,296)	580,483	(580,483)	704,133	(744,250)	34,894	(34,894)	1,054,711	(1,054,711)	22,391,879	(22,391,879)	25,070,728	(25,110,599)
경상남도	17,709	(17,709)	129,967	(129,967)	89,740	(88,796)			740,081	(780,997)	36,887	(36,887)	1,174,810	(1,174,810)	15,752,572	(15,752,572)	17,941,765	(17,981,738)
제주도	32,936	(32,936)	35,715	(35,715)	1,244	(1,244)	9,390	(9,390)	139,648	(143,234)	6,973	(6,973)	184,295	(184,295)	4,519,270	(4,519,270)	4,929,469	(4,933,056)
수도권 대기관리구역	499,928	(499,928)	741,031	(741,031)	278,107	(277,614)	1,355,303	(1,355,303)	4,398,446	(4,656,064)	179,875	(179,875)	6,335,198	(6,335,198)	23,899,363	(23,899,363)	37,687,251	(37,944,376)
수도권	499,928	(499,928)	793,347	(793,347)	308,651	(308,158)	1,355,303	(1,355,303)	4,724,107	(5,000,974)	187,847	(187,847)	6,771,408	(6,771,408)	34,161,309	(34,161,309)	48,801,900	(48,078,273)
전국	1,184,071	(1,184,071)	2,050,592	(2,050,592)	1,245,281	(1,240,077)	27,076,810	(27,076,810)	10,565,833	(11,142,004)	489,496	(489,496)	16,727,384	(16,727,384)	163,241,151	(163,241,151)	222,580,598	(223,151,584)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8. 2001년 시도별 대분류별 배출량

8.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	651,786	(651,786)	10,828,792	(10,828,824)	355,636	(355,223)			168,256,084	(162,937,736)	4,916,290	(4,916,290)	157,625	(157,625)	185,166,213	(179,847,484)
부산광역시	54,740	(54,740)	2,655,000	(2,655,000)	574,181	(563,505)	22,552	(22,552)	48,329,917	(43,323,515)	3,410,341	(3,410,341)	104,240	(104,240)	55,150,971	(50,133,892)
대구광역시	128,619	(128,619)	1,843,248	(1,843,055)	697,817	(683,374)	861	(861)	32,142,867	(30,615,568)	1,801,696	(1,801,696)	95,411	(95,411)	36,710,520	(35,168,585)
인천광역시	4,969,972	(4,969,972)	907,601	(907,601)	1,169,698	(1,120,453)	889,672	(889,672)	41,182,842	(41,057,870)	3,034,354	(3,034,354)	43,129	(43,129)	52,197,269	(52,023,052)
광주광역시			1,997,303	(1,997,238)	146,303	(145,979)			15,071,545	(14,635,334)	750,915	(750,915)	63,429	(63,429)	18,029,495	(17,592,896)
대전광역시	92,032	(92,032)	2,371,411	(2,371,379)	117,219	(117,092)	242	(242)	16,319,035	(15,884,337)	1,177,762	(1,177,762)	105,133	(105,133)	20,182,833	(19,747,977)
울산광역시	2,895,864	(2,895,864)	496,320	(496,320)	2,173,871	(2,138,261)	9,880,857	(10,862,877)	15,201,527	(14,996,360)	1,465,458	(1,465,458)	82,804	(82,804)	32,196,701	(32,937,943)
경기도	4,690,337	(4,690,337)	7,135,601	(7,135,408)	2,367,908	(2,351,067)	76,350	(76,350)	123,349,907	(124,881,635)	7,433,658	(7,433,658)	605,307	(605,307)	145,659,068	(147,173,762)
강원도	716,922	(716,922)	6,414,340	(6,414,340)	1,034,816	(1,034,807)	3,994	(3,994)	22,666,905	(23,047,882)	1,655,160	(1,655,160)	14,057	(14,057)	32,506,194	(32,887,161)
충청북도	16,578	(16,578)	5,060,166	(5,060,166)	1,009,715	(1,005,690)	192	(192)	26,777,599	(26,804,503)	2,391,943	(2,391,943)	70,208	(70,208)	35,326,400	(35,349,279)
충청남도	5,876,717	(5,876,717)	2,244,702	(2,244,798)	1,061,465	(1,059,780)	1,679,371	(1,679,371)	24,465,943	(25,201,742)	3,273,057	(3,273,057)	69,962	(69,962)	38,671,217	(39,405,427)
전라북도	94,594	(94,594)	2,490,331	(2,490,266)	628,970	(628,890)	72,004	(72,004)	28,192,907	(28,564,164)	2,220,648	(2,220,648)	67,511	(67,511)	33,766,965	(34,138,078)
전라남도	1,121,431	(1,121,431)	2,420,084	(2,419,988)	572,518	(568,283)	7,073,144	(7,130,034)	25,855,694	(26,450,202)	3,739,771	(3,739,771)	49,772	(49,772)	40,832,414	(41,479,481)
경상북도	206,295	(206,295)	7,179,784	(7,179,752)	1,496,241	(1,486,790)	2,062,311	(2,262,373)	40,527,349	(41,184,926)	4,813,342	(4,813,342)	85,319	(85,319)	56,370,643	(57,218,797)
경상남도	4,313,982	(4,313,982)	2,059,697	(2,059,794)	880,800	(869,157)	3,440	(3,440)	41,362,478	(41,776,302)	3,817,636	(3,817,636)	118,078	(118,078)	52,556,110	(52,958,388)
제주도	901,775	(901,775)	365,820	(365,820)	12,403	(12,403)			7,477,798	(7,230,698)	993,436	(993,436)	1,793	(1,793)	9,753,025	(9,505,925)
수도권 대기관리구역	10,229,240	(10,229,240)	18,195,270	(18,195,148)	3,871,007	(3,804,511)	908,254	(906,254)	318,492,331	(314,907,738)	14,670,053	(14,670,053)	798,840	(798,840)	366,960,997	(363,309,784)
수도권	10,312,094	(10,312,094)	18,871,995	(18,871,834)	3,893,242	(3,826,743)	966,022	(966,022)	332,788,833	(328,877,241)	15,384,302	(15,384,302)	806,082	(806,082)	383,022,550	(379,044,298)
전국	26,731,641	(26,731,641)	56,470,200	(56,469,748)	14,299,562	(14,140,754)	21,764,991	(23,003,962)	677,180,397	(668,592,774)	46,895,469	(46,895,469)	1,733,778	(1,733,778)	845,076,039	(837,568,127)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	2,609,001	(1,261,035)	21,731,171	(17,013,778)	1,451,170	(1,534,576)			64,156,709	(62,617,558)	15,068,302	(15,068,302)	691,960	(691,960)	105,708,313	(98,187,209)
부산광역시	817,599	(289,244)	6,089,281	(5,671,091)	3,577,019	(3,179,977)	993,070	(993,070)	26,115,628	(26,647,086)	18,149,749	(18,149,749)	571,234	(571,234)	56,313,579	(55,501,450)
대구광역시	2,923,621	(1,388,043)	4,243,535	(4,012,845)	4,753,998	(4,500,076)	46,863	(46,863)	19,992,796	(18,689,443)	5,646,899	(5,646,899)	461,105	(461,105)	38,068,817	(34,745,274)
인천광역시	15,195,782	(14,445,966)	4,715,418	(4,076,739)	8,412,500	(7,542,742)	2,757,826	(2,757,826)	19,978,892	(20,365,001)	10,987,577	(10,987,577)	523,479	(523,479)	62,571,475	(60,699,330)
광주광역시			2,165,130	(1,845,129)	682,334	(594,682)	23,042	(23,042)	8,746,686	(8,454,917)	2,300,331	(2,300,331)	306,386	(306,386)	14,223,909	(13,524,487)
대전광역시	1,018,482	(900,375)	2,789,017	(2,319,141)	893,558	(847,912)	19,975	(19,975)	11,896,387	(11,192,656)	3,692,595	(3,692,595)	1,527,399	(1,527,399)	21,837,413	(20,500,053)
울산광역시	29,281,677	(25,649,946)	3,117,471	(3,058,202)	16,008,447	(17,380,542)	3,577,174	(3,577,174)	10,569,930	(10,428,984)	8,723,511	(8,723,511)	650,428	(650,428)	71,928,638	(69,468,786)
경기도	29,366,679	(25,381,856)	16,374,594	(14,218,111)	13,755,949	(12,951,167)	3,309,170	(3,309,170)	88,390,632	(88,277,719)	25,183,221	(25,183,221)	4,478,178	(4,478,178)	180,858,422	(173,799,422)
강원도	18,916,870	(5,930,750)	4,383,476	(3,876,177)	21,109,184	(28,056,903)	171,725	(171,725)	17,642,144	(17,761,690)	5,480,550	(5,480,550)	79,712	(79,712)	67,783,661	(61,357,508)
충청북도	109,501	(109,501)	3,747,310	(3,288,808)	16,091,234	(20,267,756)	15,862	(15,862)	25,843,871	(24,914,776)	6,292,455	(6,292,455)	1,136,581	(1,136,581)	53,236,814	(56,025,739)
충청남도	116,785,386	(44,885,679)	4,096,402	(4,158,455)	8,867,909	(8,884,012)	1,552,770	(1,552,770)	23,189,520	(22,879,734)	9,982,023	(9,982,023)	639,305	(639,305)	165,113,315	(92,981,979)
전라북도	1,859,751	(824,846)	4,000,391	(3,847,843)	5,995,835	(6,051,997)	3,509,795	(3,509,795)	22,701,160	(22,216,921)	6,339,427	(6,339,427)	1,301,740	(1,301,740)	45,708,099	(44,092,568)
전라남도	12,046,162	(8,799,391)	4,959,205	(4,878,063)	5,849,288	(6,579,657)	15,924,611	(16,906,497)	23,806,517	(24,063,850)	15,788,291	(15,788,291)	684,474	(684,474)	79,058,548	(77,700,221)
경상북도	3,506,324	(1,588,894)	5,940,228	(5,270,435)	11,444,056	(11,217,846)	17,889,164	(19,613,486)	36,390,572	(35,657,352)	13,528,472	(13,528,472)	1,203,850	(1,203,850)	89,902,666	(88,080,336)
경상남도	97,138,758	(35,284,135)	4,965,166	(4,931,190)	5,601,654	(5,280,445)	237,828	(237,828)	32,842,143	(32,318,597)	12,825,267	(12,825,267)	726,773	(726,773)	154,337,590	(91,604,234)
제주도	2,849,686	(2,649,854)	1,473,111	(1,891,751)	50,426	(63,138)			5,077,321	(5,205,562)	2,910,835	(2,910,835)	7,727	(7,727)	12,369,106	(12,728,867)
수도권 대기관리구역	46,859,587	(40,778,981)	41,097,085	(33,531,505)	21,501,140	(19,856,345)	3,494,177	(3,494,177)	158,414,240	(156,908,644)	49,294,824	(49,294,624)	5,575,389	(5,575,389)	328,236,242	(309,435,664)
수도권	47,171,462	(41,088,857)	42,821,183	(35,308,628)	23,619,618	(22,028,485)	6,066,996	(6,066,996)	172,526,233	(171,260,278)	51,239,100	(51,239,100)	5,693,617	(5,693,617)	349,138,209	(332,685,961)
전국	334,425,280	(169,389,515)	94,790,908	(84,357,757)	124,544,560	(134,933,428)	50,028,874	(52,735,082)	437,340,907	(431,691,845)	162,899,505	(162,899,505)	14,990,330	(14,990,330)	1,219,020,364	(1,050,997,463)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	514,170	(672,648)	6,132,035	(7,133,776)	856,320	(1,124,341)			1,083,496	(1,064,237)	278,465	(278,465)	124,278	(124,278)	8,988,763	(10,397,745)
부산광역시	800,737	(800,521)	7,066,002	(7,301,497)	2,864,062	(3,842,371)	695,105	(794,345)	448,617	(448,409)	10,828,507	(10,828,507)	80,524	(80,524)	22,783,554	(24,096,173)
대구광역시	2,977,738	(3,024,343)	1,697,897	(2,080,859)	3,657,654	(4,270,475)	54,045	(109,360)	335,526	(333,707)	99,527	(99,527)	74,607	(74,607)	8,896,994	(9,992,878)
인천광역시	898,116	(1,141,833)	1,675,617	(1,758,726)	6,216,576	(7,699,651)	1,365,333	(1,779,276)	340,921	(348,709)	3,636,023	(3,636,023)	29,115	(29,115)	14,161,701	(16,393,333)
광주광역시			776,697	(835,351)	320,856	(410,963)	48,556	(84,348)	151,172	(149,462)	41,947	(41,947)	49,601	(49,601)	1,388,829	(1,571,671)
대전광역시	925,623	(1,219,492)	849,974	(897,581)	682,933	(960,905)	31,513	(66,329)	192,481	(194,250)	68,138	(68,138)	67,293	(67,293)	2,817,954	(3,473,988)
울산광역시	13,917,067	(17,968,993)	8,743,595	(10,591,219)	12,235,460	(26,447,580)	21,352,237	(24,946,921)	168,509	(172,382)	5,729,231	(5,729,231)	61,087	(61,087)	62,207,187	(85,917,413)
경기도	14,067,247	(17,118,242)	5,383,143	(6,318,121)	14,583,723	(19,710,175)	2,295,262	(2,781,052)	1,488,177	(1,537,437)	2,724,987	(2,724,987)	450,601	(450,601)	40,993,139	(50,640,615)
강원도	5,984,778	(14,260,665)	3,361,461	(3,557,853)	16,051,467	(16,470,962)	121,700	(164,650)	283,899	(290,188)	1,384,589	(1,384,589)	10,820	(10,820)	27,198,713	(36,139,726)
충청북도	24,112	(31,761)	2,470,209	(2,753,270)	14,421,591	(17,963,092)	1,154,289	(1,300,384)	410,254	(422,725)	124,727	(124,727)	43,232	(43,232)	18,648,415	(22,639,192)
충청남도	43,431,572	(24,162,132)	1,380,145	(1,578,032)	8,092,887	(10,681,498)	4,682,794	(4,820,103)	365,192	(379,920)	1,972,612	(1,972,612)	50,299	(50,299)	59,975,501	(43,644,597)
전라북도	1,912,959	(2,017,881)	2,708,526	(2,988,137)	6,916,248	(8,908,020)	2,778,356	(2,945,275)	355,668	(362,428)	751,404	(751,404)	38,516	(38,516)	15,461,677	(18,011,661)
전라남도	17,469,380	(19,079,613)	7,970,211	(8,561,349)	6,280,973	(10,813,998)	15,236,859	(19,746,362)	381,697	(390,538)	8,199,373	(8,199,373)	32,423	(32,423)	55,570,916	(66,823,655)
경상북도	3,724,200	(3,790,432)	3,377,878	(3,709,128)	12,139,995	(16,303,448)	23,337,051	(27,434,886)	578,354	(597,916)	1,996,057	(1,996,057)	55,133	(55,133)	45,208,668	(53,887,000)
경상남도	89,464,441	(89,498,245)	2,319,306	(2,659,432)	4,807,404	(8,775,488)	294,161	(470,191)	537,709	(549,356)	2,912,242	(2,912,242)	90,047	(90,047)	100,425,311	(104,955,002)
제주도	1,466,615	(1,927,948)	616,103	(715,456)	43,280	(54,729)	2,096	(11,206)	87,454	(87,703)	789,651	(789,651)	1,416	(1,416)	3,006,614	(3,588,109)
수도권 대기관리구역	15,469,857	(18,922,849)	12,611,790	(14,519,979)	18,057,788	(23,977,402)	1,978,741	(2,863,506)	2,682,565	(2,709,240)	6,606,455	(6,606,455)	597,861	(597,861)	58,004,856	(70,197,292)
수도권	15,479,532	(18,932,724)	13,190,794	(15,210,622)	21,856,619	(28,534,167)	3,660,595	(4,560,328)	2,812,534	(2,950,383)	6,639,475	(6,639,475)	603,994	(603,994)	64,143,603	(77,431,693)
전국	197,578,753	(196,714,750)	56,528,797	(63,439,786)	110,171,429	(154,437,698)	73,448,358	(87,454,688)	7,208,125	(7,329,366)	41,537,479	(41,537,479)	1,258,991	(1,258,991)	487,733,933	(552,172,758)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.4. 총먼지(TSP) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	22,489	(22,489)	627,277	(627,873)	13,342	(14,307)			3,509,098	(3,383,369)	566,086	(566,086)	18,040	(18,040)	4,756,332	(4,632,166)
부산광역시	1,345,341	(1,345,341)	235,411	(236,014)	306,436	(304,059)	32,905	(32,905)	1,577,308	(1,644,545)	968,482	(968,482)	14,009	(14,009)	4,479,893	(4,545,356)
대구광역시	178,804	(178,804)	267,094	(267,467)	902,741	(899,699)	2,795	(2,795)	1,184,001	(1,150,136)	233,208	(233,208)	11,693	(11,693)	2,780,335	(2,743,802)
인천광역시	146,953	(146,953)	85,834	(86,022)	885,977	(863,823)	221,480	(221,480)	1,266,508	(1,353,343)	445,154	(445,154)	11,049	(11,049)	3,062,954	(3,127,823)
광주광역시			60,182	(60,363)	8,966	(8,923)	3,546	(3,546)	547,254	(544,172)	93,399	(93,399)	7,770	(7,770)	721,116	(718,173)
대전광역시	3,964	(3,964)	68,816	(69,036)	19,633	(19,540)	1,838	(1,838)	693,802	(696,997)	165,752	(165,752)	31,530	(31,530)	985,334	(988,656)
울산광역시	2,635,517	(2,635,517)	559,932	(560,069)	9,393,224	(9,402,000)	1,955,352	(4,675,211)	622,974	(651,919)	488,826	(488,826)	14,726	(14,726)	15,670,551	(18,428,267)
경기도	482,153	(482,153)	658,030	(658,767)	1,585,741	(1,583,007)	169,853	(169,853)	5,524,983	(6,009,699)	1,177,150	(1,177,150)	102,587	(102,587)	9,700,497	(10,183,216)
강원도	646,536	(646,536)	226,190	(226,581)	4,545,091	(4,545,560)	976,235	(976,235)	1,137,572	(1,202,205)	325,027	(325,027)	1,938	(1,938)	7,858,589	(7,924,082)
충청북도	2,927	(2,927)	246,454	(246,805)	4,120,007	(4,120,721)	1,143,522	(1,143,522)	1,603,820	(1,695,651)	382,872	(382,872)	23,188	(23,188)	7,522,792	(7,615,688)
충청남도	2,697,722	(2,697,722)	174,399	(174,897)	517,651	(519,973)	321,101	(321,101)	1,467,240	(1,568,230)	632,804	(632,804)	14,084	(14,084)	5,825,001	(5,928,810)
전라북도	22,431	(22,431)	243,746	(244,110)	386,395	(386,829)	136,332	(136,332)	1,435,720	(1,481,831)	398,096	(398,096)	26,118	(26,118)	2,648,837	(2,695,746)
전라남도	289,453	(289,453)	288,317	(288,603)	785,101	(805,985)	2,895,483	(2,760,750)	1,531,698	(1,629,108)	1,023,807	(1,023,807)	14,220	(14,220)	6,828,080	(6,811,927)
경상북도	186,682	(186,682)	288,375	(288,797)	1,398,972	(1,400,280)	4,461,399	(4,237,735)	2,306,030	(2,435,933)	893,674	(893,674)	24,935	(24,935)	9,560,068	(9,468,036)
경상남도	1,881,897	(1,881,897)	195,568	(196,104)	148,500	(157,456)	18,433	(18,433)	2,054,405	(2,143,357)	737,300	(737,300)	17,327	(17,327)	5,053,430	(5,151,874)
제주도	53,107	(53,107)	100,911	(101,072)	1,253	(1,259)	313	(313)	332,274	(344,806)	133,028	(133,028)	203	(203)	621,090	(633,789)
수도권 대기관리구역	641,848	(641,848)	1,314,372	(1,315,725)	2,220,675	(2,196,690)	329,208	(329,208)	9,401,622	(9,731,181)	2,069,920	(2,069,920)	129,198	(129,198)	16,106,844	(16,413,771)
수도권	651,594	(651,594)	1,371,141	(1,372,663)	2,485,060	(2,461,137)	391,333	(391,333)	10,300,588	(10,746,412)	2,188,390	(2,188,390)	131,676	(131,676)	17,519,782	(17,943,205)
전국	10,595,975	(10,595,975)	4,326,538	(4,332,582)	25,019,030	(25,033,420)	12,340,589	(14,702,049)	26,794,666	(27,935,301)	8,664,667	(8,664,667)	333,416	(333,416)	88,074,900	(91,597,411)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.5. 총먼지(TSP) 배출량 [비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산과정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	22,489	(22,489)	627,277	(627,873)	13,342	(14,307)			180,659,128	(176,607,283)	566,086	(566,086)	18,040	(18,040)	181,906,363	(177,856,080)
부산광역시	1,345,341	(1,345,341)	235,411	(236,014)	306,436	(304,059)	32,905	(32,905)	75,254,044	(71,010,128)	968,482	(968,482)	14,009	(14,009)	78,156,629	(73,910,938)
대구광역시	178,804	(178,804)	267,094	(267,467)	902,741	(899,699)	2,795	(2,795)	61,684,166	(60,161,934)	233,208	(233,208)	11,693	(11,693)	63,280,500	(61,755,599)
인천광역시	146,953	(146,953)	85,834	(86,022)	885,977	(863,823)	221,480	(221,480)	56,930,949	(56,495,444)	445,154	(445,154)	11,049	(11,049)	58,727,394	(58,269,925)
광주광역시			60,182	(60,363)	8,966	(8,923)	3,546	(3,546)	29,410,956	(28,634,513)	93,399	(93,399)	7,770	(7,770)	29,584,818	(28,808,514)
대전광역시	3,964	(3,964)	68,816	(69,036)	19,633	(19,540)	1,838	(1,838)	35,849,184	(35,414,674)	165,752	(165,752)	31,530	(31,530)	36,140,717	(35,706,333)
울산광역시	2,635,517	(2,635,517)	559,932	(560,069)	9,393,224	(9,402,000)	1,955,352	(4,675,211)	29,566,920	(29,284,875)	488,826	(488,826)	14,726	(14,726)	44,614,497	(47,061,223)
경기도	482,153	(482,153)	658,030	(658,767)	1,585,741	(1,583,007)	169,853	(169,853)	273,320,233	(283,115,553)	1,177,150	(1,177,150)	102,587	(102,587)	277,495,747	(287,289,070)
강원도	646,536	(646,536)	226,190	(226,581)	4,545,091	(4,545,560)	976,235	(976,235)	53,201,978	(53,282,400)	325,027	(325,027)	1,938	(1,938)	59,922,995	(60,004,277)
충청북도	2,927	(2,927)	246,454	(246,805)	4,120,007	(4,120,721)	1,143,522	(1,143,522)	69,238,005	(69,289,998)	382,872	(382,872)	23,188	(23,188)	75,156,976	(75,210,035)
충청남도	2,697,722	(2,697,722)	174,399	(174,897)	517,651	(519,973)	321,101	(321,101)	68,873,560	(69,965,082)	632,804	(632,804)	14,084	(14,084)	73,231,321	(74,325,663)
전라북도	22,431	(22,431)	243,746	(244,110)	386,395	(386,829)	136,332	(136,332)	65,128,272	(65,410,051)	398,096	(398,096)	26,118	(26,118)	66,341,390	(66,623,966)
전라남도	289,453	(289,453)	288,317	(288,603)	785,101	(805,985)	2,895,483	(2,760,750)	69,164,717	(69,483,539)	1,023,807	(1,023,807)	14,220	(14,220)	74,461,099	(74,666,358)
경상북도	186,682	(186,682)	288,375	(288,797)	1,398,972	(1,400,280)	4,461,399	(4,237,735)	103,307,689	(103,734,848)	893,674	(893,674)	24,935	(24,935)	110,561,726	(110,766,951)
경상남도	1,881,897	(1,881,897)	195,568	(196,104)	148,500	(157,456)	18,433	(18,433)	94,468,482	(94,426,438)	737,300	(737,300)	17,327	(17,327)	97,467,507	(97,434,956)
제주도	53,107	(53,107)	100,911	(101,072)	1,253	(1,259)	313	(313)	17,554,238	(17,367,034)	133,028	(133,028)	203	(203)	17,843,054	(17,656,017)
수도권 대기관리권역	641,848	(641,848)	1,314,372	(1,315,725)	2,220,675	(2,196,690)	329,208	(329,208)	467,160,362	(472,482,617)	2,069,920	(2,069,920)	129,198	(129,198)	473,865,584	(479,165,207)
수도권	651,594	(651,594)	1,371,141	(1,372,663)	2,485,060	(2,461,137)	391,333	(391,333)	510,810,310	(516,218,281)	2,188,990	(2,188,990)	131,676	(131,676)	518,129,504	(523,415,074)
전국	10,595,975	(10,595,975)	4,326,538	(4,332,582)	25,019,030	(25,033,420)	12,340,589	(14,702,049)	1,283,612,522	(1,283,683,795)	8,664,667	(8,664,667)	333,416	(333,416)	1,344,892,736	(1,347,345,905)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산과정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	17,973	(17,973)	427,087	(427,634)	9,022	(9,949)			3,509,098	(3,383,369)	566,014	(566,014)	3,428	(3,428)	4,532,622	(4,408,367)
부산광역시	901,592	(901,592)	151,282	(151,835)	202,875	(201,436)	28,860	(28,860)	1,577,308	(1,644,545)	687,191	(687,191)	2,662	(2,662)	3,551,770	(3,618,120)
대구광역시	118,922	(118,922)	169,861	(170,204)	602,551	(600,704)	2,470	(2,470)	1,184,001	(1,150,136)	233,198	(233,198)	2,222	(2,222)	2,313,224	(2,277,855)
인천광역시	130,561	(130,561)	59,746	(59,919)	582,483	(568,784)	119,930	(119,930)	1,266,508	(1,353,343)	353,492	(353,492)	2,099	(2,099)	2,514,820	(2,588,128)
광주광역시			40,976	(41,143)	5,722	(5,712)	3,269	(3,269)	547,254	(544,172)	93,389	(93,389)	1,476	(1,476)	692,086	(689,161)
대전광역시	2,815	(2,815)	47,314	(47,516)	12,225	(12,175)	1,662	(1,662)	693,802	(696,997)	165,752	(165,752)	5,991	(5,991)	929,561	(932,908)
울산광역시	1,864,267	(1,864,267)	348,500	(348,625)	6,283,875	(6,290,958)	1,024,926	(2,671,457)	622,974	(651,919)	339,424	(339,424)	2,798	(2,798)	10,486,765	(12,169,450)
경기도	349,883	(349,883)	430,912	(431,588)	1,050,850	(1,049,373)	122,456	(122,456)	5,524,983	(6,009,699)	1,115,789	(1,115,789)	19,492	(19,492)	8,614,364	(9,098,280)
강원도	433,284	(433,284)	146,011	(146,369)	3,044,315	(3,044,646)	3,804	(3,804)	1,137,572	(1,202,205)	290,539	(290,539)	368	(368)	5,055,893	(5,121,215)
충청북도	1,816	(1,816)	158,312	(158,634)	2,758,137	(2,758,908)	103,661	(103,661)	1,603,820	(1,695,651)	382,869	(382,869)	4,406	(4,406)	5,013,021	(5,105,944)
충청남도	1,809,167	(1,809,167)	110,797	(111,253)	340,038	(341,849)	175,373	(175,373)	1,467,240	(1,568,230)	584,886	(584,886)	2,676	(2,676)	4,490,176	(4,593,433)
전라북도	14,981	(14,981)	154,634	(154,967)	251,545	(251,928)	127,498	(127,498)	1,435,720	(1,481,831)	380,980	(380,980)	4,962	(4,962)	2,370,319	(2,417,148)
전라남도	192,452	(192,452)	180,970	(181,233)	522,456	(535,786)	1,606,549	(1,497,848)	1,531,698	(1,629,108)	811,499	(811,499)	2,702	(2,702)	4,848,326	(4,850,629)
경상북도	125,050	(125,050)	186,615	(187,001)	926,948	(928,267)	2,791,638	(2,607,353)	2,306,030	(2,435,933)	846,827	(846,827)	4,738	(4,738)	7,187,845	(7,135,168)
경상남도	1,263,437	(1,263,437)	124,538	(125,030)	93,447	(99,429)	16,730	(16,730)	2,054,405	(2,143,357)	665,146	(665,146)	3,292	(3,292)	4,220,996	(4,316,421)
제주도	36,548	(36,548)	62,761	(62,908)	779	(785)	191	(191)	332,274	(344,806)	113,440	(113,440)	38	(38)	546,032	(558,717)
수도권 대기관리권역	492,195	(492,195)	881,656	(882,897)	1,466,872	(1,452,561)	184,034	(184,034)	9,401,622	(9,731,181)	1,916,825	(1,916,825)	24,548	(24,548)	14,367,752	(14,684,241)
수도권	498,418	(498,418)	917,745	(919,141)	1,642,355	(1,628,106)	242,386	(242,386)	10,300,588	(10,746,412)	2,035,295	(2,035,295)	25,018	(25,018)	15,661,807	(16,094,776)
전국	7,262,749	(7,262,749)	2,800,317	(2,805,860)	16,687,270	(16,700,689)	6,129,016	(7,482,562)	26,794,686	(27,935,301)	7,680,433	(7,680,433)	63,349	(63,349)	67,367,821	(69,880,944)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

8.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	17,973	(17,973)	427,087	(427,634)	9,022	(9,949)			36,512,734	(35,652,092)	566,014	(566,014)	3,428	(3,428)	37,536,258	(36,677,090)
부산광역시	901,592	(901,592)	151,282	(151,835)	202,875	(201,436)	28,860	(28,860)	15,340,080	(14,610,380)	687,191	(687,191)	2,662	(2,662)	17,314,541	(16,583,954)
대구광역시	118,922	(118,922)	169,861	(170,204)	602,551	(600,704)	2,470	(2,470)	12,485,944	(12,174,738)	233,198	(233,198)	2,222	(2,222)	13,615,168	(13,302,457)
인천광역시	130,561	(130,561)	59,746	(59,919)	582,483	(568,784)	119,930	(119,930)	11,658,963	(11,647,026)	353,492	(353,492)	2,099	(2,099)	12,907,276	(12,881,811)
광주광역시			40,976	(41,143)	5,722	(5,712)	3,269	(3,269)	5,938,974	(5,791,099)	93,389	(93,389)	1,476	(1,476)	6,083,806	(5,936,088)
대전광역시	2,815	(2,815)	47,314	(47,516)	12,225	(12,175)	1,662	(1,662)	7,255,916	(7,177,160)	165,752	(165,752)	5,991	(5,991)	7,491,675	(7,413,071)
울산광역시	1,864,267	(1,864,267)	348,500	(348,625)	6,283,875	(6,290,958)	1,024,926	(2,671,457)	6,026,445	(5,998,126)	339,424	(339,424)	2,798	(2,798)	15,890,236	(17,515,657)
경기도	349,883	(349,883)	430,912	(431,588)	1,050,850	(1,049,373)	122,456	(122,456)	55,526,224	(57,761,371)	1,115,789	(1,115,789)	19,492	(19,492)	58,615,606	(60,849,952)
강원도	433,284	(433,284)	146,011	(146,369)	3,044,315	(3,044,646)	3,804	(3,804)	10,863,605	(10,929,780)	290,539	(290,539)	368	(368)	14,781,926	(14,848,790)
충청북도	1,816	(1,816)	158,312	(158,634)	2,758,137	(2,758,908)	103,661	(103,661)	14,252,071	(14,336,117)	382,869	(382,869)	4,406	(4,406)	17,661,271	(17,746,410)
충청남도	1,809,167	(1,809,167)	110,797	(111,253)	340,038	(341,849)	175,373	(175,373)	14,078,023	(14,362,471)	584,886	(584,886)	2,676	(2,676)	17,100,959	(17,387,675)
전라북도	14,981	(14,981)	154,634	(154,967)	251,545	(251,928)	127,498	(127,498)	13,348,135	(13,436,489)	380,980	(380,980)	4,962	(4,962)	14,282,735	(14,371,806)
전라남도	192,452	(192,452)	180,970	(181,233)	522,456	(535,786)	1,606,549	(1,497,848)	14,192,837	(14,330,428)	811,499	(811,499)	2,702	(2,702)	17,509,466	(17,551,949)
경상북도	125,050	(125,050)	186,615	(187,001)	926,948	(928,267)	2,791,638	(2,607,353)	21,204,314	(21,387,200)	846,827	(846,827)	4,738	(4,738)	26,086,129	(26,086,435)
경상남도	1,263,437	(1,263,437)	124,538	(125,030)	93,447	(99,429)	16,730	(16,730)	19,336,196	(19,399,141)	665,146	(665,146)	3,292	(3,292)	21,502,787	(21,572,205)
제주도	36,548	(36,548)	62,761	(62,908)	779	(785)	191	(191)	3,552,735	(3,528,277)	113,440	(113,440)	38	(38)	3,766,492	(3,742,187)
수도권 대기관리구역	492,195	(492,195)	881,658	(882,897)	1,466,872	(1,452,561)	184,034	(184,034)	94,783,347	(96,055,149)	1,916,825	(1,916,825)	24,548	(24,548)	99,749,477	(101,008,209)
수도권	498,418	(498,418)	917,745	(919,141)	1,642,355	(1,628,106)	242,386	(242,386)	103,697,922	(105,060,489)	2,035,295	(2,035,295)	25,018	(25,018)	108,059,140	(110,408,853)
전국	7,262,749	(7,262,749)	2,800,317	(2,805,860)	16,887,270	(16,700,689)	6,129,016	(7,482,562)	261,573,196	(262,521,895)	7,630,433	(7,630,433)	63,349	(63,349)	302,146,390	(304,467,537)

()는 2003년 기준 배출량(산정 방법으로 변경전 배출량)

8.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		에너지수송 및 저장		유기용제 사용		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	96,661	(96,661)	821,457	(821,457)	54,825	(54,719)			3,670,994	(3,670,994)	55,796,027	(53,834,810)	29,098,091	(27,828,948)	1,774,495	(1,774,495)	455,448	(455,448)	91,768,000	(88,537,533)
부산광역시	7,019	(7,019)	178,657	(178,657)	96,504	(93,927)	915,824	(915,824)	1,563,133	(1,563,133)	23,553,728	(22,439,796)	8,662,292	(7,896,887)	1,231,768	(1,231,768)	945,939	(945,939)	37,154,865	(35,272,951)
대구광역시	21,768	(21,768)	121,513	(121,513)	119,674	(115,981)	656,977	(656,977)	1,431,342	(1,431,342)	17,474,187	(16,753,269)	5,682,422	(5,319,318)	687,558	(687,558)	542,839	(542,839)	26,738,280	(25,650,564)
인천광역시	680,989	(680,989)	160,989	(160,989)	214,747	(202,205)	13,457,983	(13,457,983)	1,692,076	(1,692,076)	27,830,484	(26,534,049)	7,417,628	(7,356,226)	875,469	(875,469)	3,208,184	(3,208,184)	55,538,549	(54,168,171)
광주광역시			64,924	(64,924)	20,646	(20,627)	40,047	(40,047)	606,173	(606,173)	8,217,661	(7,887,392)	2,605,039	(2,500,577)	272,880	(272,880)	293,688	(293,688)	12,121,057	(11,686,307)
대전광역시	19,173	(19,173)	88,769	(88,769)	23,576	(23,546)	625,026	(625,026)	846,044	(846,044)	7,456,098	(7,130,760)	2,904,548	(2,765,598)	476,963	(476,963)	4,306,520	(4,306,520)	16,746,717	(16,282,399)
울산광역시	594,376	(594,376)	76,669	(76,669)	404,313	(395,331)	44,713,510	(44,713,510)	2,070,103	(2,070,103)	32,765,226	(30,539,096)	2,791,351	(2,723,391)	551,487	(551,487)	1,487,044	(1,487,044)	85,454,079	(83,151,009)
경기도	742,299	(742,299)	517,055	(517,055)	401,956	(398,435)	1,796,209	(1,796,209)	6,368,959	(6,368,959)	91,903,016	(87,858,347)	21,825,623	(21,596,521)	2,862,858	(2,862,858)	8,513,341	(8,513,341)	134,931,316	(130,654,024)
강원도	318,177	(318,177)	61,005	(61,005)	133,787	(133,786)	400,714	(400,714)	913,008	(913,008)	7,510,498	(7,270,600)	4,073,767	(3,983,615)	584,695	(584,695)	614,000	(614,000)	14,609,650	(14,279,599)
충청북도	4,227	(4,227)	77,348	(77,348)	158,952	(158,714)	3,168,690	(3,168,690)	670,561	(670,561)	11,222,319	(10,791,078)	4,940,619	(4,733,404)	880,409	(880,409)	3,316,891	(3,316,891)	24,440,016	(23,801,322)
충청남도	861,732	(861,732)	83,217	(83,217)	221,550	(221,358)	16,232,424	(16,232,424)	1,201,999	(1,201,999)	15,231,268	(14,656,684)	4,444,683	(4,368,291)	1,166,800	(1,166,800)	1,566,473	(1,566,473)	41,010,146	(40,358,979)
전라북도	23,142	(23,142)	94,435	(94,435)	140,303	(140,299)	2,632,885	(2,632,885)	826,582	(826,582)	10,290,748	(9,924,905)	5,052,602	(4,918,798)	768,708	(768,708)	3,971,507	(3,971,507)	23,800,912	(23,301,260)
전라남도	204,067	(204,067)	94,916	(94,916)	106,540	(106,328)	28,976,288	(28,976,288)	1,420,007	(1,420,007)	15,247,503	(14,347,468)	4,760,835	(4,673,090)	1,280,970	(1,280,970)	2,033,937	(2,033,937)	54,125,063	(53,137,071)
경상북도	25,347	(25,347)	119,897	(119,897)	284,635	(283,521)	8,446,192	(8,446,192)	1,521,415	(1,521,415)	22,272,702	(21,372,709)	7,557,630	(7,379,600)	1,683,105	(1,683,105)	3,407,722	(3,407,722)	45,318,646	(44,239,509)
경상남도	523,848	(523,848)	116,928	(116,928)	152,293	(151,686)	3,488,900	(3,488,900)	1,510,692	(1,510,692)	49,637,653	(46,662,264)	7,696,885	(7,513,680)	1,372,602	(1,372,602)	1,419,273	(1,419,273)	65,919,074	(62,759,874)
제주도	112,175	(112,175)	31,247	(31,247)	1,727	(1,727)	175,971	(175,971)	245,676	(245,676)	2,884,947	(2,775,280)	1,330,649	(1,251,534)	252,337	(252,337)	103,166	(103,166)	5,137,894	(4,949,112)
수도권 대기관리구역	1,511,184	(1,511,184)	1,465,118	(1,465,118)	625,289	(609,121)	15,093,831	(15,093,831)	11,300,479	(11,300,479)	168,038,751	(161,081,307)	55,751,023	(54,321,004)	5,276,266	(5,276,266)	11,845,166	(11,845,166)	270,907,108	(262,503,476)
수도권	1,519,949	(1,519,949)	1,499,501	(1,499,501)	671,529	(655,360)	15,254,193	(15,254,193)	11,732,030	(11,732,030)	175,529,527	(168,227,207)	58,341,343	(56,781,695)	5,512,822	(5,512,822)	12,176,972	(12,176,972)	282,237,866	(273,359,728)
전국	4,235,000	(4,235,000)	2,709,025	(2,709,025)	2,536,028	(2,502,193)	125,727,640	(125,727,640)	26,558,766	(26,558,766)	399,294,065	(380,778,508)	120,844,664	(116,809,477)	16,723,104	(16,723,104)	36,185,971	(36,185,971)	734,814,263	(712,229,684)

()는 2003년 기준 배출량(산정 방법으로 변경전 배출량)

8.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		자연오염원		농업		배출원대분류 합계	
서울특별시	31,333	(31,333)	372,369	(372,369)	21,728	(21,662)			1,865,480	(1,840,202)	42,817	(42,817)	2,982,611	(2,982,611)	25,659	(25,659)	5,341,998	(5,316,654)
부산광역시	1,252	(1,252)	146,456	(146,456)	51,941	(50,233)	11	(11)	582,772	(578,798)	36,174	(36,174)	1,028,229	(1,028,229)	515,717	(515,717)	2,362,552	(2,356,869)
대구광역시	7,987	(7,987)	94,620	(94,620)	58,806	(56,495)			484,758	(479,020)	16,867	(16,867)	702,277	(702,277)	860,870	(860,870)	2,226,185	(2,218,136)
인천광역시	172,781	(172,781)	105,648	(105,648)	111,761	(103,881)	1,500,156	(1,500,156)	464,081	(461,848)	22,234	(22,234)	790,732	(790,732)	1,580,354	(1,580,354)	4,747,747	(4,737,634)
광주광역시			41,679	(41,679)	12,865	(12,813)	66	(66)	241,829	(238,007)	6,595	(6,595)	415,984	(415,984)	516,581	(516,581)	1,235,598	(1,231,724)
대전광역시	14,725	(14,725)	51,579	(51,579)	13,476	(13,456)			303,157	(300,552)	10,549	(10,549)	403,791	(403,791)	152,228	(152,228)	949,506	(946,880)
울산광역시	378,805	(378,805)	69,225	(69,225)	189,482	(183,827)	12,987,977	(12,987,977)	255,972	(255,239)	17,375	(17,375)	320,394	(320,394)	940,679	(940,679)	15,159,909	(15,153,521)
경기도	329,618	(329,618)	334,404	(334,404)	185,240	(182,545)	4,013	(4,013)	2,301,648	(2,374,048)	73,098	(73,098)	3,480,341	(3,480,341)	33,012,537	(33,012,537)	39,720,900	(39,790,605)
강원도	21,987	(21,987)	90,859	(90,859)	20,009	(20,007)			428,063	(428,250)	13,824	(13,824)	809,082	(809,082)	8,339,455	(8,339,455)	9,723,280	(9,723,465)
충청북도	2,652	(2,652)	79,404	(79,404)	48,338	(47,695)			456,248	(454,007)	16,383	(16,383)	828,948	(828,948)	9,689,749	(9,689,749)	11,121,723	(11,118,838)
충청남도	93,263	(93,263)	118,527	(118,527)	125,709	(125,440)	3,543,918	(3,543,918)	472,283	(473,290)	25,234	(25,234)	1,175,732	(1,175,732)	25,056,873	(25,056,873)	30,611,539	(30,612,276)
전라북도	5,416	(5,416)	105,708	(105,708)	83,361	(83,348)			464,737	(466,373)	17,301	(17,301)	1,325,761	(1,325,761)	20,036,788	(20,036,788)	22,039,072	(22,040,694)
전라남도	111,452	(111,452)	154,807	(154,807)	60,499	(59,821)	12,660,107	(12,660,107)	447,923	(448,261)	33,961	(33,961)	1,351,214	(1,351,214)	24,456,952	(24,456,952)	39,276,916	(39,276,576)
경상북도	4,020	(4,020)	148,947	(148,947)	156,758	(155,246)	548,985	(548,985)	711,048	(711,962)	34,941	(34,941)	1,164,653	(1,164,653)	22,258,585	(22,258,585)	25,027,936	(25,027,338)
경상남도	17,576	(17,576)	138,467	(138,467)	93,961	(92,099)			691,954	(691,221)	34,091	(34,091)	1,290,253	(1,290,253)	15,701,695	(15,701,695)	17,967,997	(17,965,401)
제주도	31,255	(31,255)	38,579	(38,579)	1,905	(1,905)	6	(6)	131,619	(131,451)	6,112	(6,112)	202,132	(202,132)	3,528,085	(3,528,085)	3,939,693	(3,939,524)
수도권 대기관리구역	533,171	(533,171)	763,819	(763,819)	290,741	(280,101)	1,504,169	(1,504,169)	4,318,827	(4,380,858)	132,041	(132,041)	6,735,756	(6,735,756)	24,440,644	(24,440,644)	38,716,988	(38,750,360)
수도권	533,732	(533,732)	812,422	(812,422)	318,728	(308,088)	1,504,169	(1,504,169)	4,631,210	(4,676,098)	138,150	(138,150)	7,253,684	(7,253,684)	34,618,550	(34,618,550)	48,810,645	(48,844,899)
전국	1,224,122	(1,224,122)	2,091,278	(2,091,278)	1,235,837	(1,210,471)	31,245,238	(31,245,238)	10,303,573	(10,332,526)	407,557	(407,557)	18,272,134	(18,272,134)	166,672,808	(166,672,808)	231,452,549	(231,456,137)

()는 2003년 기준 배출량(산정 방법으로 변경전 배출량)

9. 2000년 시도별 대분류별 배출량

9.1. 일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	664,897	(664,897)	11,259,240	(11,258,818)	277,312	(277,645)			176,447,454	(142,726,863)	5,129,583	(5,129,583)	128,672	(128,672)	193,907,158	(160,186,478)
부산광역시	30,583	(30,583)	2,372,569	(2,372,546)	473,173	(433,541)	24,740	(24,740)	45,782,516	(41,344,130)	3,468,523	(3,468,523)	181,069	(113,076)	52,333,174	(47,787,139)
대구광역시	127,971	(127,971)	1,962,310	(1,962,337)	706,424	(679,585)	173		35,074,959	(31,937,909)	1,515,368	(1,515,368)	89,752	(81,755)	39,476,957	(36,305,097)
인천광역시	4,577,570	(4,577,570)	1,143,661	(1,143,571)	778,069	(851,560)	972,083	(972,083)	37,390,864	(31,896,386)	2,275,427	(2,275,427)	46,853	(46,853)	47,184,528	(41,763,450)
광주광역시			1,923,502	(1,923,500)	134,067	(139,087)			18,406,178	(15,602,475)	920,770	(920,770)	79,975	(29,600)	21,464,492	(18,615,432)
대전광역시	93,709	(93,709)	1,913,563	(1,913,598)	121,058	(113,878)			17,334,141	(16,973,301)	1,190,422	(1,190,422)	87,957	(55,851)	20,740,851	(20,340,759)
울산광역시	2,614,199	(2,603,657)	490,241	(490,155)	2,526,707	(2,232,142)	16,921,371	(17,968,355)	13,768,573	(12,912,509)	1,501,098	(1,501,098)	69,016	(62,188)	37,891,204	(37,770,103)
경기도	4,663,926	(4,653,516)	7,068,438	(7,067,980)	2,610,586	(2,485,254)	73,489	(73,489)	128,663,181	(122,261,643)	8,756,170	(8,756,170)	495,148	(495,148)	152,330,937	(145,793,199)
강원도	727,863	(727,863)	5,703,009	(5,703,221)	1,100,288	(1,010,606)	3,994	(3,994)	24,689,747	(22,022,096)	1,654,314	(1,654,314)	18,652	(18,652)	33,897,866	(31,140,745)
충청북도	8,061	(8,061)	4,582,535	(4,582,500)	937,306	(884,936)	93		31,040,332	(26,719,777)	2,418,063	(2,418,063)	63,707	(63,707)	39,050,098	(34,677,137)
충청남도	5,014,051	(5,014,051)	2,718,360	(2,718,395)	1,030,697	(1,026,997)	1,691,791	(1,691,791)	36,353,114	(35,748,578)	3,357,477	(3,357,477)	57,306	(57,307)	50,222,796	(49,614,596)
전라북도	105,761	(105,761)	2,694,048	(2,693,975)	663,330	(650,688)	79,551	(79,551)	31,494,917	(28,499,792)	2,385,669	(2,385,669)	157,712	(70,614)	37,580,988	(34,486,051)
전라남도	999,351	(999,351)	2,667,556	(2,667,573)	622,679	(570,331)	7,108,563	(7,142,200)	31,871,675	(29,693,031)	3,803,172	(3,803,172)	60,120	(58,496)	47,133,115	(44,934,152)
경상북도	192,886	(192,886)	6,290,333	(6,290,242)	1,414,476	(1,216,114)	2,325,185	(2,482,477)	47,887,238	(46,991,825)	4,860,325	(4,860,325)	113,122	(50,755)	63,083,565	(62,084,624)
경상남도	3,845,651	(3,836,521)	2,192,857	(2,192,893)	890,097	(804,128)	3,030	(3,030)	43,326,026	(39,873,297)	3,712,152	(3,712,152)	123,626	(123,626)	54,093,439	(50,545,647)
제주도	740,255	(740,255)	355,552	(355,582)	9,150	(6,527)	47	(47)	8,017,179	(6,990,274)	1,052,918	(1,052,918)	2,388	(2,388)	10,177,489	(9,147,991)
수도권 대기관리권역	9,831,424	(9,821,014)	18,822,611	(18,821,044)	3,441,563	(3,395,689)	979,792	(979,792)	327,560,204	(284,754,559)	14,752,578	(14,752,578)	662,371	(662,371)	376,050,544	(333,187,048)
수도권	9,906,394	(9,895,983)	18,471,339	(19,470,369)	3,665,967	(3,614,459)	1,045,572	(1,045,572)	342,501,499	(296,884,891)	16,161,180	(16,161,180)	670,672	(670,672)	393,422,623	(347,743,127)
전국	24,406,735	(24,376,652)	55,337,775	(55,336,885)	14,295,419	(13,383,018)	29,204,110	(30,441,755)	727,548,094	(652,193,885)	48,001,450	(48,001,450)	1,775,074	(1,458,688)	900,568,657	(825,192,600)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	2,275,888	(946,113)	23,384,492	(18,570,987)	1,016,731	(799,814)			54,314,767	(49,431,559)	14,906,618	(14,906,618)	692,886	(692,886)	96,591,381	(85,347,976)
부산광역시	738,058	(319,820)	6,344,209	(5,966,912)	2,842,269	(1,849,106)	1,150,451	(1,150,451)	19,771,810	(20,661,368)	18,605,975	(18,605,975)	927,960	(683,183)	50,380,752	(49,236,815)
대구광역시	2,907,768	(1,323,555)	4,530,782	(4,344,092)	4,767,447	(3,621,465)	16,047	(16,047)	16,150,808	(17,228,101)	4,640,078	(4,640,078)	436,102	(407,314)	33,449,031	(31,580,651)
인천광역시	14,079,723	(13,327,274)	4,873,573	(4,283,428)	4,968,995	(5,004,613)	2,697,883	(2,697,883)	13,754,048	(12,924,205)	10,840,051	(10,840,051)	594,615	(594,615)	51,808,889	(49,672,068)
광주광역시			2,250,361	(1,921,706)	568,512	(500,140)	4,839	(4,839)	7,805,174	(7,359,997)	2,849,956	(2,849,956)	1,194,346	(186,834)	14,673,188	(12,823,472)
대전광역시	1,037,051	(916,791)	3,178,522	(2,817,467)	945,953	(679,871)	5,126	(5,126)	10,460,095	(11,963,004)	3,682,263	(3,682,263)	1,211,419	(569,307)	20,520,429	(20,633,829)
울산광역시	28,162,739	(22,524,174)	3,204,177	(3,145,774)	18,637,223	(14,659,446)	3,722,271	(3,722,271)	7,937,271	(9,356,873)	8,845,053	(8,845,053)	528,269	(391,713)	71,037,004	(62,645,305)
경기도	26,464,450	(23,352,214)	16,459,395	(14,517,648)	14,894,641	(10,947,982)	3,234,746	(3,234,746)	73,132,635	(69,529,287)	28,426,330	(28,426,330)	3,774,503	(3,774,503)	166,386,700	(173,782,709)
강원도	18,971,535	(6,029,818)	4,476,079	(4,093,897)	22,331,470	(26,899,592)	173,555	(173,555)	15,053,056	(18,461,070)	5,463,261	(5,463,261)	116,443	(116,443)	66,585,398	(61,237,634)
충청북도	88,024	(87,498)	3,667,845	(3,143,736)	14,480,193	(16,263,960)	28,044	(28,044)	22,992,668	(27,748,527)	6,425,641	(6,425,641)	1,027,439	(1,027,439)	48,709,854	(54,724,844)
충청남도	101,772,124	(38,541,001)	4,383,924	(4,298,378)	8,816,258	(8,295,305)	1,134,844	(1,134,844)	22,017,504	(28,220,264)	9,829,567	(9,829,567)	560,295	(560,295)	148,514,516	(90,879,653)
전라북도	2,111,594	(938,249)	4,120,505	(3,959,524)	6,464,078	(5,124,968)	3,448,696	(3,448,697)	19,039,953	(23,353,761)	7,187,415	(7,187,415)	2,905,956	(1,355,568)	45,278,197	(45,368,181)
전라남도	10,899,611	(7,118,590)	4,784,181	(4,761,913)	7,009,651	(6,254,337)	13,535,191	(14,025,761)	20,366,973	(26,061,185)	15,616,314	(15,616,314)	812,621	(806,774)	73,024,542	(74,644,873)
경상북도	3,695,727	(1,535,707)	5,892,745	(5,367,424)	11,348,653	(7,486,952)	19,089,708	(20,972,847)	32,417,508	(42,386,214)	13,657,968	(13,657,968)	787,040	(562,518)	86,889,349	(91,969,629)
경상남도	86,193,900	(31,247,720)	5,360,451	(5,328,463)	5,965,142	(4,179,945)	316,690	(316,690)	25,759,380	(31,900,253)	12,219,219	(12,219,219)	1,108,769	(1,108,769)	136,923,551	(86,301,059)
제주도	3,228,774	(3,102,319)	1,357,686	(1,743,565)	40,214	(33,579)	2,863	(2,863)	4,268,445	(5,053,528)	3,164,399	(3,164,399)	8,747	(8,747)	12,071,128	(13,109,001)
수도권 대기관리권역	42,537,862	(37,343,402)	43,039,146	(35,652,853)	18,954,986	(15,072,671)	3,103,347	(3,103,347)	128,925,214	(136,506,301)	49,876,947	(49,876,947)	4,938,075	(4,938,075)	291,375,576	(282,493,595)
수도권	42,820,061	(37,625,601)	44,717,460	(37,372,064)	20,880,367	(16,752,408)	5,932,629	(5,932,629)	141,201,451	(151,885,050)	54,172,999	(54,172,999)	5,062,003	(5,062,003)	314,786,970	(308,802,753)
전국	302,626,966	(151,310,841)	98,268,926	(88,264,914)	125,097,451	(112,601,072)	48,560,955	(50,934,663)	365,242,095	(421,639,194)	166,360,107	(166,360,107)	16,687,409	(12,846,908)	1,122,843,908	(1,003,957,700)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	528,224	(691,089)	6,210,224	(7,010,697)	300,305	(366,563)			932,490	(772,814)	319,966	(319,966)	99,577	(99,577)	8,390,786	(9,260,706)
부산광역시	850,123	(880,674)	7,630,747	(7,781,969)	2,264,348	(2,187,569)	847,802	(954,810)	364,070	(333,319)	11,639,908	(11,639,908)	140,815	(86,420)	23,737,813	(23,864,668)
대구광역시	2,989,398	(3,045,083)	1,602,863	(1,929,141)	4,178,976	(4,338,669)	21,233	(62,667)	296,971	(281,303)	92,376	(92,376)	70,148	(63,751)	9,251,965	(9,812,989)
인천광역시	1,125,457	(1,445,110)	1,350,802	(1,378,337)	4,759,722	(7,408,215)	3,127,976	(3,663,667)	247,477	(213,045)	5,974,094	(5,974,094)	31,249	(31,249)	16,616,778	(20,113,717)
광주광역시			803,491	(874,697)	234,767	(443,905)	9,862	(52,737)	142,852	(121,369)	57,057	(57,057)	50,715	(22,505)	1,298,745	(1,572,270)
대전광역시	951,432	(1,253,495)	793,315	(861,067)	776,702	(910,519)	10,422	(55,099)	183,391	(189,141)	74,842	(74,842)	57,271	(39,292)	2,847,376	(3,383,456)
울산광역시	14,308,803	(18,447,823)	10,045,585	(12,007,389)	15,207,391	(23,084,832)	22,603,325	(30,145,364)	138,171	(143,770)	5,929,663	(5,929,663)	51,118	(47,294)	68,284,056	(89,806,137)
경기도	11,385,232	(16,965,222)	5,170,830	(5,997,029)	14,934,714	(18,350,940)	2,206,511	(2,761,728)	1,303,771	(1,434,451)	1,697,440	(1,697,440)	366,967	(366,967)	37,065,466	(47,573,778)
강원도	6,351,974	(14,459,643)	2,941,139	(3,149,749)	18,330,865	(15,777,929)	123,728	(139,941)	260,051	(283,524)	1,376,684	(1,376,684)	14,200	(14,201)	29,398,641	(35,201,670)
충청북도	56,348	(74,088)	2,219,316	(2,445,592)	13,672,358	(13,900,547)	889,125	(1,057,024)	403,197	(427,064)	135,512	(135,512)	39,286	(39,286)	17,415,142	(18,079,113)
충청남도	43,761,448	(21,590,460)	1,674,777	(1,883,200)	7,937,276	(10,801,024)	4,491,641	(4,610,771)	383,826	(439,811)	1,442,225	(1,442,225)	40,665	(40,665)	59,731,858	(40,808,156)
전라북도	2,169,367	(2,300,188)	3,211,760	(3,536,980)	7,290,567	(9,433,756)	2,284,248	(2,524,927)	328,424	(353,845)	1,184,847	(1,184,847)	91,952	(40,374)	16,561,166	(19,374,916)
전라남도	16,679,865	(18,036,591)	9,551,186	(10,304,254)	8,231,470	(8,767,223)	10,753,486	(13,985,227)	355,150	(396,438)	7,806,755	(7,806,755)	39,371	(38,072)	53,417,283	(59,334,560)
경상북도	4,049,316	(4,063,392)	3,023,346	(3,319,326)	12,378,253	(11,665,450)	23,858,557	(28,411,167)	563,164	(639,830)	1,867,812	(1,867,812)	84,939	(35,045)	45,825,387	(50,002,023)
경상남도	85,763,852	(85,780,800)	3,424,729	(3,753,413)	5,333,971	(6,288,936)	417,270	(609,308)	460,094	(494,565)	2,702,418	(2,702,418)	89,188	(89,188)	98,191,522	(99,718,626)
제주도	1,209,396	(1,544,817)	576,755	(678,298)	48,449	(29,792)	3,048	(10,614)	78,303	(77,844)	808,978	(808,978)	1,908	(1,908)	2,726,838	(3,152,252)
수도권 대기관리구역	13,029,979	(19,092,486)	12,083,099	(13,818,134)	16,984,455	(22,586,301)	3,491,157	(4,577,381)	2,264,788	(2,172,444)	7,910,366	(7,910,366)	492,528	(492,528)	56,256,351	(70,449,841)
수도권	13,038,914	(18,101,421)	12,731,856	(14,886,083)	19,994,742	(26,125,718)	5,334,487	(6,425,395)	2,483,739	(2,420,311)	7,991,500	(7,991,500)	487,793	(497,793)	82,073,030	(78,948,201)
전국	192,180,236	(190,578,472)	60,230,865	(66,911,139)	115,880,134	(133,755,869)	71,648,234	(89,045,051)	6,441,405	(6,602,133)	43,110,577	(43,110,577)	1,269,369	(1,055,793)	490,760,822	(531,058,035)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.4. 총연지(TSP) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	19,693	(19,693)	656,182	(656,001)	9,956	(10,049)			2,756,995	(2,371,288)	521,413	(521,413)	17,068	(17,069)	3,981,308	(3,595,512)
부산광역시	1,246,508	(1,246,508)	202,129	(202,623)	278,579	(166,007)	43,716	(43,716)	1,157,013	(1,111,613)	993,900	(993,900)	23,158	(16,358)	3,945,004	(3,780,725)
대구광역시	177,727	(177,727)	209,286	(209,792)	935,010	(662,306)	1,106	(1,106)	929,135	(987,508)	195,740	(195,740)	11,042	(10,242)	2,459,047	(2,244,421)
인천광역시	143,492	(143,492)	112,689	(112,664)	712,605	(646,266)	301,311	(301,311)	837,960	(777,427)	541,761	(541,761)	12,477	(12,477)	2,662,295	(2,535,399)
광주광역시			61,572	(61,760)	5,808	(7,082)	81	(81)	470,813	(428,610)	114,549	(114,549)	24,579	(4,428)	677,401	(616,510)
대전광역시	3,998	(3,998)	70,415	(70,632)	15,040	(13,999)	64	(64)	606,115	(698,839)	166,441	(166,441)	25,164	(12,321)	887,237	(966,294)
울산광역시	2,291,393	(2,287,131)	562,690	(562,584)	9,430,426	(8,608,656)	2,136,761	(10,623,121)	464,654	(559,445)	493,276	(493,276)	12,020	(9,289)	15,391,221	(23,143,502)
경기도	392,596	(387,591)	506,943	(507,407)	1,691,037	(1,240,297)	192,116	(192,116)	4,440,573	(5,774,768)	1,277,481	(1,277,481)	85,953	(85,953)	8,586,699	(9,465,614)
강원도	664,128	(664,128)	198,561	(198,958)	5,421,533	(3,914,511)	1,089,163	(1,089,163)	948,136	(1,206,629)	317,326	(317,326)	2,767	(2,767)	8,641,614	(7,393,482)
충청북도	950	(950)	164,234	(164,446)	3,754,621	(2,840,302)	844,427	(844,427)	1,410,070	(1,829,283)	382,009	(382,009)	20,970	(20,970)	6,577,280	(6,082,386)
충청남도	2,539,002	(2,539,002)	185,500	(185,641)	152,849	(153,445)	366,146	(366,146)	1,398,270	(1,863,771)	609,657	(609,657)	12,206	(12,206)	5,263,630	(5,729,869)
전라북도	26,047	(26,047)	219,777	(219,826)	153,189	(151,515)	81,619	(81,619)	1,180,601	(1,523,866)	435,584	(435,584)	58,543	(27,208)	2,155,360	(2,465,665)
전라남도	203,568	(203,568)	275,550	(275,612)	1,147,549	(846,189)	2,315,951	(2,273,711)	1,289,514	(1,734,785)	992,292	(992,292)	16,918	(16,756)	6,241,342	(6,342,911)
경상북도	233,018	(233,018)	254,995	(255,090)	1,482,192	(895,472)	4,862,094	(4,605,137)	2,011,667	(2,790,027)	878,924	(878,924)	18,260	(12,023)	9,741,151	(9,669,691)
경상남도	1,648,380	(1,640,191)	214,668	(215,215)	138,171	(125,820)	29,276	(29,276)	1,580,970	(2,051,045)	704,541	(704,541)	24,504	(24,504)	4,340,510	(4,790,591)
제주도	42,293	(42,293)	95,108	(95,277)	1,079	(516)	128	(128)	266,748	(318,719)	144,400	(144,400)	242	(242)	549,998	(601,575)
수도권 대기관리구역	546,963	(541,958)	1,222,010	(1,222,118)	2,158,297	(1,712,424)	425,388	(425,388)	7,261,715	(7,872,971)	2,132,590	(2,132,590)	112,948	(112,948)	13,859,910	(14,020,397)
수도권	555,782	(550,777)	1,275,814	(1,276,072)	2,413,598	(1,896,612)	493,427	(493,427)	8,035,528	(8,923,483)	2,340,855	(2,340,855)	115,499	(115,499)	15,230,302	(15,596,524)
전국	9,632,794	(9,615,338)	3,990,301	(3,993,526)	25,329,645	(20,282,429)	12,263,958	(20,451,121)	21,749,233	(26,027,623)	8,769,295	(8,769,295)	365,870	(284,814)	82,101,096	(89,424,146)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.5. 총연지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	19,693	(19,693)	656,182	(656,001)	9,956	(10,049)			159,043,569	(122,032,844)	521,413	(521,413)	17,068	(17,069)	160,267,883 (123,257,068)
부산광역시	1,246,508	(1,246,508)	202,129	(202,623)	278,579	(166,007)	43,716	(43,716)	61,752,521	(50,489,639)	993,900	(993,900)	23,158	(16,358)	64,540,511 (53,158,751)
대구광역시	177,727	(177,727)	209,286	(209,792)	935,010	(662,306)	1,106	(1,106)	54,154,062	(47,973,533)	195,740	(195,740)	11,042	(10,242)	55,683,973 (49,230,447)
인천광역시	143,492	(143,492)	112,689	(112,664)	712,605	(646,266)	301,311	(301,311)	44,201,185	(37,517,969)	541,761	(541,761)	12,477	(12,477)	46,025,521 (39,275,941)
광주광역시			61,572	(61,760)	5,808	(7,082)	81	(81)	26,687,545	(21,327,027)	114,549	(114,549)	24,579	(4,428)	26,894,133 (21,514,927)
대전광역시	3,998	(3,998)	70,415	(70,632)	15,040	(13,999)	64	(64)	31,870,535	(31,856,794)	166,441	(166,441)	25,164	(12,321)	32,151,657 (32,124,249)
울산광역시	2,291,393	(2,287,131)	562,690	(562,584)	9,430,426	(8,608,656)	2,136,761	(10,623,121)	25,292,148	(25,076,441)	493,276	(493,276)	12,020	(9,289)	40,218,715 (47,660,497)
경기도	392,596	(387,591)	506,943	(507,407)	1,691,037	(1,240,297)	192,116	(192,116)	239,851,170	(266,106,148)	1,277,481	(1,277,481)	85,953	(85,953)	243,997,295 (269,796,994)
강원도	664,128	(664,128)	198,561	(198,958)	5,421,533	(3,914,511)	1,089,163	(1,089,163)	47,310,158	(52,668,123)	317,326	(317,326)	2,767	(2,767)	55,003,635 (58,854,975)
충청북도	950	(950)	164,234	(164,446)	3,754,621	(2,840,302)	844,427	(844,427)	64,574,393	(68,703,388)	382,009	(382,009)	20,970	(20,970)	69,741,604 (72,956,490)
충청남도	2,539,002	(2,539,002)	185,500	(185,641)	152,849	(153,445)	366,146	(366,146)	71,889,884	(82,003,542)	609,657	(609,657)	12,206	(12,206)	75,755,245 (85,869,639)
전라북도	26,047	(26,047)	219,777	(219,826)	153,189	(151,515)	81,619	(81,619)	58,469,734	(62,801,358)	435,584	(435,584)	58,543	(27,208)	59,444,493 (63,743,157)
전라남도	203,568	(203,568)	275,550	(275,612)	1,147,549	(846,189)	2,315,951	(2,273,711)	62,437,263	(70,836,676)	992,292	(992,292)	16,918	(16,756)	67,389,091 (75,444,803)
경상북도	233,018	(233,018)	254,995	(255,090)	1,482,192	(895,472)	4,862,094	(4,605,137)	95,163,287	(108,586,006)	878,924	(878,924)	18,260	(12,023)	102,892,770 (115,465,670)
경상남도	1,648,380	(1,640,191)	214,668	(215,215)	138,171	(125,820)	29,276	(29,276)	80,659,087	(86,511,815)	704,541	(704,541)	24,504	(24,504)	83,418,627 (89,251,361)
제주도	42,293	(42,293)	95,108	(95,277)	1,079	(516)	128	(128)	15,057,591	(15,307,498)	144,400	(144,400)	242	(242)	15,340,842 (15,590,353)
수도권 대기관리구역	546,963	541,958	1,222,010	1,222,118	2,158,297	1,712,424	425,388	425,388	402,720,793	380,286,471	2,132,590	2,132,590	112,948	112,948	409,318,989 386,433,898
수도권	555,782	(550,777)	1,275,814	(1,278,072)	2,413,598	(1,896,612)	493,427	(493,427)	443,095,924	(425,856,981)	2,340,655	(2,340,655)	115,499	(115,499)	450,290,699 (432,330,003)
전국	9,632,794	(9,615,338)	3,990,301	(3,993,526)	25,329,645	(20,282,429)	12,263,958	(20,451,121)	1,138,414,133	(1,149,798,800)	8,769,295	(8,768,295)	365,870	(284,814)	1,188,765,996 (1,213,195,323)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.6. 미세먼지(PM₁₀) 배출량

비산먼지 제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	16,030	(16,030)	445,216	(445,235)	6,915	(7,020)			2,756,995	(2,371,288)	521,291	(521,291)	3,243	(3,243)	3,749,690 (3,364,107)
부산광역시	835,378	(835,378)	130,978	(131,500)	184,647	(109,514)	38,657	(38,657)	1,157,013	(1,111,613)	700,345	(700,345)	4,400	(3,108)	3,051,419 (2,930,115)
대구광역시	118,245	(118,245)	134,228	(134,695)	623,364	(440,812)	922	(921)	929,135	(987,508)	195,730	(195,730)	2,098	(1,946)	2,003,721 (1,879,857)
인천광역시	125,110	(125,110)	76,394	(76,446)	474,616	(429,396)	210,487	(210,487)	837,960	(777,427)	391,811	(391,811)	2,371	(2,371)	2,118,748 (2,013,047)
광주광역시			41,836	(42,009)	3,695	(4,512)	49	(49)	470,813	(428,610)	114,538	(114,538)	4,670	(841)	635,602 (590,560)
대전광역시	2,839	(2,839)	47,707	(47,955)	9,377	(8,743)	43	(43)	606,115	(698,839)	166,441	(166,441)	4,781	(2,341)	837,304 (927,202)
울산광역시	1,621,094	(1,618,067)	350,137	(350,109)	6,305,689	(5,758,333)	1,126,191	(6,289,588)	464,654	(559,445)	343,274	(343,274)	2,284	(1,765)	10,213,322 (14,920,581)
경기도	293,127	(289,573)	335,834	(336,375)	1,119,843	(818,991)	131,782	(131,783)	4,440,573	(5,774,768)	1,247,536	(1,247,536)	16,331	(16,331)	7,585,025 (8,615,356)
강원도	445,077	(445,077)	128,265	(128,639)	3,630,560	(2,621,073)	4,584	(4,584)	948,136	(1,206,629)	284,245	(284,245)	526	(526)	5,441,393 (4,690,773)
충청북도	589	(589)	106,687	(106,883)	2,512,685	(1,900,059)	79,239	(79,238)	1,410,070	(1,829,283)	382,007	(382,007)	3,984	(3,984)	4,495,260 (4,302,042)
충청남도	1,701,610	(1,701,610)	117,868	(118,072)	95,563	(96,463)	194,236	(194,236)	1,398,270	(1,863,771)	577,224	(577,224)	2,319	(2,319)	4,087,089 (4,553,695)
전라북도	17,413	(17,413)	139,817	(139,970)	95,254	(94,329)	76,875	(76,875)	1,180,601	(1,523,866)	408,358	(408,358)	11,123	(5,170)	1,929,440 (2,265,980)
전라남도	137,783	(137,783)	172,945	(173,093)	763,759	(562,566)	1,193,021	(1,154,594)	1,289,514	(1,734,785)	796,708	(796,708)	3,214	(3,183)	4,356,945 (4,562,713)
경상북도	155,841	(155,841)	165,027	(165,240)	981,215	(590,144)	2,996,006	(2,785,367)	2,011,667	(2,790,027)	837,277	(837,277)	3,469	(2,284)	7,150,502 (7,326,181)
경상남도	1,106,907	(1,101,092)	136,612	(137,164)	86,663	(79,362)	26,795	(26,795)	1,580,970	(2,051,045)	640,169	(640,169)	4,656	(4,656)	3,582,771 (4,040,282)
제주도	29,036	(29,036)	59,207	(59,362)	671	(323)	94	(94)	266,748	(318,719)	125,079	(125,079)	46	(46)	480,880 (532,659)
수도권 대기관리구역	428,636	(425,082)	823,363	(823,042)	1,431,798	(1,133,418)	278,389	(278,389)	7,261,715	(7,872,971)	1,952,573	(1,952,573)	21,460	(21,460)	12,197,934 (12,507,735)
수도권	434,267	(430,713)	857,443	(858,056)	1,601,374	(1,255,406)	342,270	(342,270)	8,035,528	(8,923,483)	2,160,637	(2,160,637)	21,945	(21,945)	13,453,483 (13,992,510)
전국	6,606,078	(6,593,684)	2,588,758	(2,592,747)	16,894,516	(13,521,638)	6,078,981	(10,993,311)	21,749,233	(26,027,623)	7,732,032	(7,732,032)	69,515	(54,114)	61,719,112 (67,515,150)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	16,030	(16,030)	445,216	(445,235)	6,915	(7,020)			31,859,111	(24,632,143)	521,291	(521,291)	3,243	(3,243)	32,851,806	(25,624,963)
부산광역시	835,378	(835,378)	130,978	(131,500)	184,647	(109,514)	38,657	(38,657)	12,471,617	(10,321,385)	700,345	(700,345)	4,400	(3,108)	14,366,023	(12,139,887)
대구광역시	118,245	(118,245)	134,228	(134,695)	623,364	(440,812)	922	(921)	10,867,863	(9,754,349)	195,730	(195,730)	2,098	(1,946)	11,942,449	(10,646,698)
인천광역시	125,110	(125,110)	76,394	(76,446)	474,616	(429,396)	210,487	(210,487)	8,929,566	(7,629,857)	391,811	(391,811)	2,371	(2,371)	10,210,354	(8,865,477)
광주광역시			41,836	(42,009)	3,695	(4,512)	49	(49)	5,365,491	(4,325,794)	114,538	(114,538)	4,670	(841)	5,530,280	(4,487,743)
대전광역시	2,839	(2,839)	47,707	(47,955)	9,377	(8,743)	43	(43)	6,441,267	(6,508,918)	166,441	(166,441)	4,781	(2,341)	6,672,456	(6,737,280)
울산광역시	1,621,094	(1,618,067)	350,137	(350,109)	6,305,689	(5,758,333)	1,126,191	(6,289,588)	5,097,503	(5,133,843)	343,274	(343,274)	2,284	(1,765)	14,846,172	(19,494,979)
경기도	293,127	(289,573)	335,834	(336,375)	1,119,843	(818,991)	131,782	(131,783)	48,385,443	(54,378,501)	1,247,536	(1,247,536)	16,331	(16,331)	51,529,896	(57,219,089)
강원도	445,077	(445,077)	128,265	(128,639)	3,630,560	(2,621,073)	4,584	(4,584)	9,605,233	(10,818,060)	284,245	(284,245)	526	(526)	14,098,490	(14,302,204)
충청북도	589	(589)	106,687	(106,883)	2,512,685	(1,900,059)	79,239	(79,238)	13,219,025	(14,333,897)	382,007	(382,007)	3,984	(3,984)	16,304,215	(16,806,657)
충청남도	1,701,610	(1,701,610)	117,868	(118,072)	95,563	(96,463)	194,236	(194,236)	14,583,350	(16,847,813)	577,224	(577,224)	2,319	(2,319)	17,272,169	(19,537,736)
전라북도	17,413	(17,413)	139,817	(139,970)	95,254	(94,329)	76,875	(76,875)	11,890,570	(12,981,484)	408,358	(408,358)	11,123	(5,170)	12,639,409	(13,723,598)
전라남도	137,783	(137,783)	172,945	(173,093)	763,759	(562,566)	1,193,021	(1,154,594)	12,731,287	(14,665,926)	796,708	(796,708)	3,214	(3,183)	15,798,718	(17,493,855)
경상북도	155,841	(155,841)	165,027	(165,240)	981,215	(590,144)	2,996,006	(2,785,367)	19,434,684	(22,578,188)	837,277	(837,277)	3,469	(2,284)	24,573,519	(27,114,342)
경상남도	1,106,907	(1,101,092)	136,612	(137,164)	86,663	(79,362)	26,795	(26,795)	16,360,479	(17,836,360)	640,169	(640,169)	4,656	(4,656)	18,362,280	(19,825,598)
제주도	29,036	(29,036)	59,207	(59,362)	671	(323)	94	(94)	3,029,408	(3,117,174)	125,079	(125,079)	46	(46)	3,243,540	(3,331,113)
수도권 대기관리구역	428,636	(425,082)	823,363	(823,842)	1,431,798	(1,133,418)	278,389	(278,389)	80,994,300	(77,303,337)	1,952,573	(1,952,573)	21,460	(21,460)	85,930,519	(81,938,102)
수도권	434,267	(430,713)	857,443	(858,056)	1,601,374	(1,255,408)	342,270	(342,270)	89,174,120	(86,840,501)	2,160,637	(2,160,637)	21,945	(21,945)	94,592,056	(91,709,528)
전국	6,606,078	(6,593,684)	2,588,758	(2,592,747)	16,894,516	(13,521,638)	6,078,981	(10,993,311)	230,271,898	(235,863,693)	7,732,032	(7,732,032)	69,515	(54,114)	270,241,778	(277,351,220)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		에너지수송 및 저장		유기용제 사용		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	98,840	(98,840)	827,266	(827,192)	35,812	(35,945)			3,994,696	(3,994,696)	49,310,935	(47,582,944)	28,559,527	(22,293,881)	1,714,644	(1,714,644)	833,628	(833,628)	85,375,349	(77,381,770)
부산광역시	4,507	(4,507)	167,184	(167,156)	77,761	(69,076)	373,727	(373,726)	1,477,570	(1,477,570)	22,836,968	(21,816,569)	7,651,344	(6,645,048)	1,250,650	(1,250,650)	1,314,819	(1,312,021)	35,154,529	(33,116,324)
대구광역시	21,647	(21,647)	123,096	(123,094)	120,950	(115,926)	94,500	(94,500)	1,457,155	(1,457,155)	15,571,722	(14,918,203)	5,640,640	(4,967,509)	578,919	(578,919)	601,591	(601,223)	24,210,220	(22,878,176)
인천광역시	630,888	(630,888)	157,487	(157,458)	125,642	(145,349)	7,497,193	(7,497,192)	1,794,118	(1,794,118)	26,015,488	(24,901,691)	6,419,028	(5,384,542)	752,917	(752,917)	3,269,594	(3,269,161)	46,662,353	(44,533,316)
광주광역시			66,738	(66,738)	18,224	(19,530)	24,131	(24,131)	521,470	(521,470)	8,545,805	(8,166,368)	3,015,080	(2,467,023)	343,864	(343,864)	3,375,520	(393,261)	15,910,833	(12,002,385)
대전광역시	19,523	(19,523)	89,953	(89,933)	24,393	(22,549)	16,025	(16,025)	860,009	(860,009)	6,395,080	(6,489,837)	2,923,712	(2,742,812)	483,583	(483,583)	3,396,952	(1,464,785)	14,209,229	(12,189,057)
울산광역시	554,689	(552,493)	75,488	(75,460)	479,929	(411,882)	48,250,195	(48,250,209)	2,032,255	(2,032,255)	27,591,386	(26,119,783)	2,288,348	(2,049,042)	568,810	(568,810)	1,259,446	(855,178)	83,100,546	(80,915,112)
경기도	719,538	(717,370)	491,799	(491,754)	423,749	(394,694)	928,252	(928,252)	6,267,312	(6,267,312)	87,228,530	(82,872,210)	21,215,749	(19,978,730)	3,402,220	(3,402,220)	7,339,355	(7,339,321)	128,016,506	(122,391,864)
강원도	319,324	(319,324)	60,332	(60,328)	148,786	(135,343)	123,279	(123,279)	909,467	(909,467)	7,055,812	(6,741,479)	4,136,217	(3,567,404)	589,643	(589,643)	651,257	(651,139)	13,994,118	(13,097,406)
충청북도	2,034	(2,034)	66,342	(66,341)	149,568	(142,468)	1,050,339	(1,050,338)	660,578	(660,578)	11,094,824	(10,562,624)	5,195,534	(4,283,189)	900,687	(900,687)	3,097,866	(3,129,287)	22,217,771	(20,797,547)
충청남도	750,972	(750,972)	78,605	(78,575)	222,330	(221,166)	16,253,406	(16,253,383)	1,134,001	(1,134,001)	14,932,451	(14,248,295)	5,837,821	(5,592,797)	1,209,722	(1,209,722)	1,449,724	(1,449,682)	41,869,033	(40,938,594)
전라북도	27,408	(27,408)	92,720	(92,676)	156,141	(152,704)	457,750	(457,750)	848,099	(848,099)	9,452,957	(9,407,404)	5,122,314	(4,494,201)	842,379	(842,379)	8,634,532	(4,169,336)	25,634,299	(20,491,957)
전라남도	179,147	(179,147)	88,704	(88,667)	125,058	(112,261)	40,198,948	(40,198,977)	1,395,504	(1,395,504)	12,977,901	(11,887,708)	5,112,027	(4,575,619)	1,317,574	(1,317,574)	2,367,917	(2,367,798)	63,762,781	(62,123,256)
경상북도	22,444	(22,444)	115,309	(115,259)	273,315	(226,597)	7,692,954	(7,692,931)	1,471,141	(1,471,141)	23,008,783	(22,137,694)	7,905,333	(7,503,461)	1,717,393	(1,717,393)	1,653,292	(1,650,728)	43,859,964	(42,537,648)
경상남도	466,953	(465,051)	118,646	(118,626)	158,265	(138,230)	1,166,891	(1,166,891)	1,486,734	(1,486,734)	43,295,450	(40,976,207)	7,271,133	(6,503,217)	1,338,118	(1,338,118)	2,716,566	(2,716,486)	58,018,756	(54,909,561)
제주도	93,959	(93,959)	28,347	(28,347)	1,475	(745)	8,021	(8,021)	240,766	(240,766)	2,884,913	(2,728,708)	1,322,384	(1,108,254)	288,224	(288,224)	51,055	(51,042)	4,919,144	(4,548,067)
수도권 대기관리구역	1,441,336	(1,439,167)	1,445,917	(1,445,782)	545,194	(536,896)	8,272,133	(8,272,133)	11,642,831	(11,642,831)	153,569,401	(146,910,700)	53,700,149	(45,685,306)	5,348,226	(5,348,226)	11,073,504	(11,073,045)	247,039,691	(232,355,067)
수도권	1,448,266	(1,447,097)	1,478,553	(1,478,404)	585,203	(575,987)	8,425,445	(8,425,445)	12,056,127	(12,056,127)	162,554,953	(155,356,845)	56,194,304	(47,657,153)	5,869,781	(5,869,781)	11,442,577	(11,442,111)	260,054,209	(244,306,950)
전국	3,911,873	(3,905,606)	2,648,016	(2,647,605)	2,541,398	(2,344,465)	124,135,611	(124,135,607)	26,550,876	(26,550,876)	368,199,005	(351,557,726)	119,616,191	(104,156,730)	17,299,348	(17,299,348)	42,013,114	(32,254,078)	706,915,432	(664,852,041)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

9.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		배출원대분류 합계	
서울특별시	31,985	(31,985)	427,217	(427,181)	21,197	(21,193)			1,792,124	(1,318,286)	39,296	(39,296)	2,311,820	(1,837,941)
부산광역시	1,540	(1,540)	148,919	(148,905)	40,499	(34,957)	9	(9)	545,320	(417,889)	36,794	(36,794)	773,081	(640,094)
대구광역시	7,959	(7,959)	99,104	(99,103)	58,274	(56,106)			468,805	(403,491)	13,762	(13,762)	647,904	(580,420)
인천광역시	162,341	(162,341)	111,445	(111,430)	61,378	(73,750)	3,308,311	(3,308,311)	412,457	(349,625)	21,889	(21,889)	4,077,821	(4,027,346)
광주광역시			43,796	(43,796)	10,953	(11,768)			246,170	(197,023)	8,329	(8,329)	309,249	(260,916)
대전광역시	14,994	(14,994)	66,268	(66,258)	14,545	(13,406)			275,280	(280,575)	10,534	(10,534)	381,620	(385,766)
울산광역시	364,695	(363,008)	69,037	(69,023)	227,316	(187,954)	12,880,771	(12,880,769)	251,394	(236,567)	17,753	(17,753)	13,810,965	(13,755,075)
경기도	303,059	(301,393)	341,023	(341,001)	219,487	(202,555)	4,013	(4,013)	2,215,393	(2,509,597)	85,681	(85,681)	3,168,656	(3,444,241)
강원도	24,165	(24,165)	85,959	(85,957)	23,728	(21,288)			426,712	(487,770)	13,924	(13,924)	574,488	(633,103)
충청북도	1,290	(1,290)	77,338	(77,338)	48,873	(47,819)			469,085	(507,064)	16,869	(16,869)	613,454	(650,379)
충청남도	83,441	(83,441)	119,637	(119,622)	132,005	(131,107)	3,529,245	(3,529,238)	588,293	(718,821)	25,708	(25,708)	4,478,330	(4,607,938)
전라북도	6,633	(6,633)	105,306	(105,285)	95,530	(93,703)			465,886	(508,470)	19,336	(19,336)	692,691	(733,427)
전라남도	92,634	(92,634)	143,275	(143,257)	69,948	(63,926)	13,004,254	(13,004,265)	457,533	(541,476)	34,593	(34,593)	13,802,237	(13,880,151)
경상북도	1,342	(1,342)	145,721	(145,696)	152,901	(125,457)	613,957	(613,955)	721,279	(862,223)	35,876	(35,876)	1,671,076	(1,784,548)
경상남도	16,819	(15,358)	142,526	(142,516)	100,474	(86,257)			674,745	(745,395)	32,840	(32,840)	967,404	(1,022,366)
제주도	29,011	(29,011)	32,787	(32,787)	1,406	(987)	5	(5)	133,431	(145,629)	7,006	(7,006)	203,646	(215,423)
수도권 대기관리구역	496,878	(495,212)	833,932	(833,845)	272,757	(268,678)	3,312,324	(3,312,324)	4,101,913	(3,803,752)	133,142	(133,142)	9,150,945	(8,846,953)
수도권	497,385	(495,720)	879,685	(879,612)	302,061	(297,498)	3,312,324	(3,312,324)	4,419,975	(4,177,508)	146,866	(146,866)	9,558,296	(9,309,528)
전국	1,141,908	(1,137,094)	2,159,357	(2,159,153)	1,278,514	(1,172,232)	33,340,565	(33,340,565)	10,143,907	(10,229,901)	420,190	(420,190)	48,484,442	(48,459,138)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10. 1999년 시도별 대분류별 배출량

10.1.일산화탄소(CO) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	592,956	(592,956)	11,490,385	(11,488,523)	257,931	(248,698)			171,207,044	(136,186,457)	4,042,820	(4,042,820)	98,053	(98,053)	187,689,188 (152,657,505)
부산광역시	28,865	(28,865)	2,310,344	(2,304,833)	421,460	(370,238)	48,318	(48,318)	49,612,841	(43,043,594)	2,785,756	(2,785,756)	198,593	(119,729)	55,406,177 (48,701,333)
대구광역시	136,387	(136,387)	2,106,062	(2,100,935)	676,302	(636,667)	529	(529)	32,617,473	(29,951,403)	977,697	(977,697)	97,071	(87,665)	36,611,520 (33,891,283)
인천광역시	4,757,675	(4,757,675)	1,528,827	(1,528,545)	734,079	(720,437)	690,327	(690,327)	30,363,888	(27,039,092)	1,850,828	(1,850,828)	46,480	(46,480)	39,972,103 (36,633,385)
광주광역시			1,984,445	(1,980,819)	114,349	(109,509)			19,538,755	(17,451,456)	753,877	(753,877)	5,434	(5,434)	22,396,860 (20,301,094)
대전광역시	97,984	(97,984)	1,539,803	(1,535,741)	132,453	(137,151)			17,856,276	(18,254,571)	777,407	(777,407)	105,977	(55,799)	20,509,899 (20,858,652)
울산광역시	2,095,680	(2,095,680)	424,465	(423,989)	2,365,493	(2,064,661)	16,762,023	(17,630,624)	13,031,997	(12,282,260)	1,321,612	(1,321,612)	17,448	(10,571)	36,018,718 (35,829,398)
경기도	4,641,231	(4,641,231)	7,065,204	(7,056,607)	2,603,734	(2,454,784)	53,189	(53,189)	127,564,210	(114,338,385)	11,302,614	(11,302,614)	434,172	(380,722)	153,664,354 (140,227,533)
강원도	651,767	(651,767)	5,425,589	(5,358,279)	964,588	(877,011)	1,331	(1,331)	25,444,992	(22,710,925)	1,764,580	(1,764,580)	19,112	(19,112)	34,271,959 (31,383,006)
충청북도	1,090	(1,090)	3,551,282	(3,547,552)	1,071,836	(1,030,419)			30,984,727	(27,267,688)	2,210,356	(2,210,356)	62,411	(52,596)	37,881,702 (34,109,701)
충청남도	4,414,571	(4,414,571)	2,695,816	(2,693,423)	1,006,084	(1,018,685)	1,695,180	(1,695,180)	31,250,853	(32,320,806)	3,292,070	(3,292,070)	77,295	(77,295)	44,431,869 (45,512,031)
전라북도	106,574	(106,574)	2,919,627	(2,918,244)	624,680	(605,457)	60,859	(60,859)	33,218,263	(30,866,058)	2,364,191	(2,364,191)	156,291	(72,651)	39,450,484 (36,994,034)
전라남도	777,531	(777,531)	2,628,074	(2,627,817)	606,130	(508,190)	7,147,675	(7,167,410)	32,543,750	(30,200,756)	3,915,177	(3,915,177)	50,179	(45,228)	47,668,516 (45,242,109)
경상북도	178,933	(178,933)	5,347,156	(5,345,822)	1,339,326	(1,176,012)	3,167,792	(3,301,541)	49,528,272	(48,665,345)	4,768,320	(4,768,320)	133,878	(57,436)	64,463,678 (63,493,409)
경상남도	3,216,398	(3,216,398)	2,296,311	(2,289,463)	901,043	(844,020)	3,499	(3,499)	44,104,479	(40,507,377)	3,178,401	(3,178,401)	69,961	(69,961)	53,770,091 (50,109,119)
제주도	855,956	(855,956)	400,594	(400,435)	18,694	(17,055)			8,715,690	(7,468,110)	978,543	(978,543)	2,487	(2,487)	10,971,963 (9,722,585)
수도권 대기관리구역	9,972,392	(9,972,392)	19,443,979	(19,433,101)	3,411,358	(3,240,936)	700,829	(700,829)	314,664,593	(265,968,755)	15,934,906	(15,934,906)	561,560	(508,388)	364,689,617 (315,759,307)
수도권	9,991,861	(9,991,861)	20,084,416	(20,073,675)	3,595,744	(3,423,919)	743,516	(743,516)	329,135,141	(277,563,935)	17,196,262	(17,196,262)	578,705	(525,255)	381,325,646 (328,518,423)
전국	22,553,597	(22,553,597)	53,713,983	(53,601,027)	13,838,184	(12,818,995)	29,630,722	(30,652,807)	717,583,508	(638,554,283)	46,284,249	(46,284,249)	1,574,841	(1,201,220)	885,179,083 (805,666,177)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.2. 질산화물(NOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계
서울특별시	2,066,740	(833,606)	26,276,022	(21,820,042)	998,714	(737,526)			48,459,066	(44,164,455)	11,550,714	(11,550,714)	384,341	(384,341)	89,735,598 (79,490,685)
부산광역시	752,066	(303,961)	6,235,442	(5,883,664)	2,785,650	(1,788,658)	2,202,653	(2,202,653)	19,464,635	(19,922,101)	15,741,014	(15,741,014)	911,723	(627,814)	48,093,183 (46,469,865)
대구광역시	3,067,830	(1,408,469)	5,460,322	(5,142,911)	5,305,240	(4,237,262)	80,203	(80,203)	14,671,951	(16,161,215)	2,912,435	(2,912,435)	461,467	(427,607)	31,959,447 (30,370,102)
인천광역시	14,648,646	(13,753,865)	5,214,695	(4,668,715)	5,241,312	(4,492,346)	1,994,377	(1,994,377)	10,410,100	(9,094,794)	9,155,122	(9,155,122)	541,408	(541,408)	47,205,661 (43,700,628)
광주광역시			2,458,311	(2,085,276)	586,092	(438,668)	63,933	(63,933)	7,232,848	(6,923,553)	2,303,250	(2,303,250)	93,714	(93,714)	12,738,149 (11,908,394)
대전광역시	1,084,359	(958,613)	2,854,388	(2,524,227)	1,190,084	(1,008,051)	47,004	(47,004)	10,018,036	(11,710,269)	2,312,577	(2,312,577)	1,508,967	(505,411)	19,015,416 (19,066,152)
울산광역시	21,887,709	(17,119,857)	2,996,015	(2,925,222)	18,030,616	(14,759,444)	3,864,995	(3,864,995)	7,374,737	(8,890,500)	8,082,707	(8,082,707)	293,992	(169,524)	62,530,770 (55,812,247)
경기도	24,873,931	(20,733,755)	18,555,999	(16,993,120)	16,768,966	(12,819,400)	2,584,954	(2,584,954)	68,653,580	(81,547,981)	37,213,912	(37,213,912)	2,876,199	(2,683,778)	171,527,542 (174,576,901)
강원도	16,337,060	(5,444,293)	6,540,329	(5,253,879)	19,351,186	(22,636,948)	61,853	(61,853)	15,212,893	(18,773,119)	5,779,294	(5,779,294)	103,897	(103,897)	63,386,512 (58,053,283)
충청북도	11,628	(11,560)	3,785,985	(3,416,483)	16,367,919	(18,835,794)	49,613	(49,613)	23,622,564	(29,051,034)	5,801,974	(5,801,974)	1,012,980	(816,677)	50,652,662 (57,983,134)
충청남도	90,774,510	(34,889,740)	4,373,595	(4,235,130)	9,392,898	(9,090,330)	1,330,358	(1,330,358)	21,626,555	(28,867,224)	9,681,255	(9,681,255)	639,024	(639,024)	137,818,194 (88,733,060)
전라북도	2,122,321	(950,659)	4,448,439	(4,198,176)	6,200,387	(5,015,138)	2,696,881	(2,696,881)	20,306,551	(25,453,462)	7,137,415	(7,137,415)	1,676,607	(1,375,500)	44,588,600 (46,827,231)
전라남도	8,313,383	(5,626,152)	4,628,006	(4,559,408)	7,085,925	(5,716,384)	10,728,035	(11,218,587)	21,187,306	(27,103,381)	15,393,553	(15,393,553)	601,835	(584,011)	67,938,042 (70,201,474)
경상북도	3,643,205	(1,483,185)	6,182,332	(5,750,271)	12,038,123	(8,811,346)	20,958,735	(22,841,890)	34,382,489	(44,997,929)	13,265,067	(13,265,067)	836,976	(561,782)	91,306,928 (97,711,471)
경상남도	71,352,118	(25,876,256)	6,075,142	(6,061,783)	7,168,723	(5,471,573)	379,530	(379,530)	25,141,098	(31,137,707)	10,435,066	(10,435,066)	499,215	(499,215)	121,050,890 (79,861,129)
제주도	3,627,399	(3,576,330)	1,459,192	(1,811,414)	68,444	(97,544)	1,647	(1,647)	4,636,566	(5,524,912)	2,973,197	(2,973,197)	9,326	(9,326)	12,775,771 (13,994,369)
수도권 대기관리구역	41,516,032	(35,247,941)	48,169,118	(41,569,498)	21,275,603	(16,457,861)	2,741,698	(2,741,698)	114,092,868	(117,743,833)	54,121,956	(54,121,956)	3,508,037	(3,316,619)	285,425,313 (271,199,408)
수도권	41,589,318	(35,321,226)	50,046,717	(43,481,878)	23,008,992	(18,049,272)	4,579,331	(4,579,331)	127,522,747	(134,807,230)	57,919,748	(57,919,748)	3,801,949	(3,609,528)	308,468,801 (297,768,214)
전국	264,562,907	(132,970,297)	107,544,214	(97,329,721)	128,580,278	(115,956,413)	47,044,770	(49,418,478)	352,400,975	(409,323,637)	159,738,551	(159,738,551)	12,451,670	(10,023,029)	1,072,323,365 (974,760,126)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.3. 황산화물(SOx) 배출량

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	444,790	(581,648)	11,497,240	(11,727,321)	517,916	(602,645)			763,749	(617,061)	253,722	(253,722)	77,983	(77,983)	13,555,400	(13,860,381)
부산광역시	877,413	(896,188)	5,526,028	(5,599,206)	2,448,276	(2,553,771)	1,541,653	(1,661,186)	334,555	(295,801)	10,557,505	(10,557,505)	155,994	(92,903)	21,441,424	(21,656,560)
대구광역시	3,112,102	(3,166,661)	2,198,865	(2,573,214)	5,508,785	(5,931,073)	109,039	(134,225)	255,271	(243,162)	59,409	(59,409)	76,017	(68,493)	11,319,489	(12,176,237)
인천광역시	915,251	(1,168,086)	1,592,714	(1,597,201)	4,984,603	(5,984,083)	1,575,913	(2,343,849)	175,333	(144,941)	5,421,361	(5,421,361)	31,710	(31,710)	14,696,884	(16,691,231)
광주광역시			1,047,569	(1,129,569)	447,849	(527,026)	102,365	(140,344)	119,488	(103,216)	46,662	(46,662)	3,262	(3,262)	1,767,196	(1,950,079)
대전광역시	994,834	(1,310,676)	1,096,746	(1,228,209)	1,332,991	(1,928,985)	73,541	(108,321)	165,006	(171,662)	48,812	(48,812)	68,282	(40,183)	3,780,213	(4,836,847)
울산광역시	11,566,393	(14,871,575)	8,077,921	(9,952,992)	16,707,198	(19,419,418)	20,960,104	(28,254,108)	122,064	(126,542)	5,631,481	(5,631,481)	10,575	(6,533)	63,075,735	(78,262,650)
경기도	9,716,757	(14,412,852)	7,614,207	(8,897,572)	17,782,795	(25,029,975)	1,845,587	(2,503,617)	1,124,701	(1,200,609)	1,713,731	(1,713,731)	328,120	(285,360)	40,125,899	(54,043,716)
강원도	5,731,390	(11,339,483)	4,869,577	(4,669,199)	21,469,259	(19,140,885)	57,246	(74,036)	241,485	(265,935)	1,293,191	(1,293,191)	14,776	(14,776)	33,676,923	(36,797,506)
충청북도	7,454	(9,766)	2,019,633	(2,207,732)	17,415,013	(18,495,813)	1,085,105	(1,224,627)	387,954	(416,535)	122,775	(122,775)	38,393	(32,897)	21,076,328	(22,510,144)
충청남도	41,782,558	(33,055,959)	1,931,406	(2,155,131)	9,386,384	(13,468,046)	4,765,910	(4,915,027)	344,532	(411,131)	1,362,142	(1,362,142)	56,557	(56,557)	59,629,490	(55,423,992)
전라북도	2,386,621	(2,593,995)	2,984,224	(3,362,839)	8,532,336	(11,074,647)	1,776,430	(2,045,879)	324,086	(359,015)	1,138,255	(1,138,255)	108,731	(41,819)	17,250,684	(20,616,450)
전라남도	11,571,502	(12,685,636)	6,969,352	(7,404,733)	8,847,953	(12,337,841)	10,286,935	(13,318,398)	345,024	(387,287)	6,873,334	(6,873,334)	33,980	(30,019)	44,928,079	(53,037,048)
경상북도	4,048,666	(4,062,742)	3,208,044	(3,568,262)	15,757,955	(17,224,068)	23,339,487	(27,745,122)	551,386	(630,746)	1,846,865	(1,846,865)	101,907	(40,753)	48,854,310	(55,118,559)
경상남도	71,677,314	(75,619,967)	3,413,100	(3,795,296)	8,014,932	(12,220,100)	460,698	(613,012)	412,188	(447,752)	2,621,466	(2,621,466)	52,349	(52,348)	86,652,047	(95,369,942)
제주도	890,358	(1,120,875)	1,076,424	(1,331,714)	76,108	(73,510)	1,379	(7,376)	75,088	(77,367)	764,694	(764,694)	1,984	(1,984)	2,886,035	(3,377,520)
수도권 대기관리구역	11,074,477	(16,160,266)	20,016,918	(21,440,269)	20,501,050	(28,181,221)	2,224,513	(3,642,883)	1,844,179	(1,709,349)	7,317,996	(7,317,996)	427,495	(384,958)	63,406,628	(78,896,943)
수도권	11,076,798	(16,162,587)	20,704,161	(22,222,094)	23,285,313	(31,616,703)	3,421,500	(4,847,466)	2,063,782	(1,962,611)	7,388,814	(7,388,814)	437,813	(395,053)	68,378,183	(84,595,328)
전국	165,723,403	(176,896,110)	65,123,052	(71,200,191)	139,230,354	(166,011,685)	67,981,392	(85,088,126)	5,741,809	(5,898,783)	39,755,407	(39,755,407)	1,160,621	(877,580)	484,716,137	(545,728,861)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.4. 총먼지(TSP) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	18,940	(18,940)	722,568	(723,253)	10,943	(12,946)			2,281,189	(1,976,677)	399,166	(399,166)	10,379	(10,379)	3,443,186	(3,141,361)
부산광역시	1,356,165	(1,356,165)	157,166	(155,923)	368,801	(240,384)	70,214	(70,214)	1,127,129	(1,049,502)	862,478	(862,478)	23,459	(15,573)	3,965,413	(3,750,239)
대구광역시	2,656,839	(2,656,839)	290,773	(289,174)	1,213,428	(957,344)	8,398	(8,398)	843,600	(923,195)	130,569	(130,569)	11,756	(10,816)	5,155,363	(4,976,334)
인천광역시	141,447	(141,447)	106,945	(107,113)	789,548	(713,204)	180,696	(180,696)	612,872	(507,727)	466,854	(466,854)	11,491	(11,491)	2,309,853	(2,128,532)
광주광역시			97,967	(96,752)	7,755	(7,247)	8,202	(8,202)	407,214	(372,125)	92,733	(92,733)	1,900	(1,900)	615,770	(578,959)
대전광역시	4,175	(4,175)	116,478	(114,767)	19,997	(21,337)	5,681	(5,681)	564,049	(660,305)	112,130	(112,130)	31,222	(11,151)	853,732	(929,546)
울산광역시	1,200,561	(1,200,561)	538,113	(538,108)	9,656,008	(8,545,878)	1,872,758	(10,244,596)	431,325	(528,105)	455,772	(455,772)	5,974	(3,462)	14,160,510	(21,516,481)
경기도	408,349	(408,349)	631,525	(629,452)	1,933,339	(1,569,413)	157,103	(157,103)	4,080,451	(5,189,255)	1,594,053	(1,594,053)	67,439	(62,094)	8,872,258	(9,609,718)
강원도	678,794	(678,794)	227,093	(214,568)	7,492,362	(6,007,430)	1,271,405	(1,271,405)	936,145	(1,207,590)	326,127	(326,127)	2,553	(2,553)	10,934,479	(9,708,466)
충청북도	125	(125)	161,026	(160,406)	4,225,544	(3,423,131)	822,427	(822,427)	1,450,464	(1,922,003)	354,921	(354,921)	20,661	(16,735)	7,035,170	(6,699,748)
충청남도	2,331,772	(2,331,772)	194,960	(194,066)	149,914	(155,572)	325,964	(325,963)	1,352,981	(1,907,935)	592,937	(592,937)	14,329	(14,329)	4,962,856	(5,522,574)
전라북도	26,421	(26,421)	218,956	(218,672)	161,990	(159,842)	81,011	(81,011)	1,247,514	(1,654,123)	428,564	(428,564)	36,006	(27,642)	2,200,461	(2,596,274)
전라남도	270,937	(270,937)	214,261	(214,484)	1,334,965	(1,088,862)	2,158,835	(1,889,005)	1,350,653	(1,820,014)	956,251	(956,251)	12,723	(12,228)	6,298,624	(6,251,780)
경상북도	20,803	(20,803)	266,001	(265,875)	1,857,061	(1,304,045)	4,431,443	(4,456,534)	2,131,170	(2,964,411)	870,398	(870,398)	19,882	(12,238)	9,596,758	(9,894,304)
경상남도	1,250,683	(1,250,683)	248,403	(247,650)	172,655	(177,042)	33,029	(33,029)	1,527,295	(1,987,161)	634,142	(634,142)	11,521	(11,521)	3,877,728	(4,341,228)
제주도	34,765	(34,765)	100,923	(101,030)	1,152	(822)	106	(106)	275,409	(343,121)	139,789	(139,789)	255	(255)	552,398	(619,888)
수도권 대기관리구역	566,446	(566,446)	1,405,689	(1,404,293)	2,457,555	(2,073,963)	293,233	(293,233)	6,129,811	(6,509,115)	2,270,898	(2,270,898)	83,347	(78,030)	13,206,978	(13,195,976)
수도권	568,736	(568,736)	1,461,038	(1,459,818)	2,733,829	(2,295,562)	337,799	(337,799)	6,974,512	(7,873,659)	2,460,074	(2,460,074)	89,308	(83,964)	14,625,297	(14,879,612)
전국	10,400,777	(10,400,777)	4,293,157	(4,271,292)	29,395,460	(24,384,498)	11,427,272	(19,554,371)	20,619,459	(25,013,249)	8,416,882	(8,416,882)	281,550	(224,366)	84,834,556	(92,265,435)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.5. 총먼지(TSP) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산입 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	18,940	(18,940)	722,568	(723,253)	10,943	(12,946)			139,955,726	(105,538,145)	399,166	(399,166)	10,379	(10,379)	141,117,722	(106,702,829)
부산광역시	1,356,165	(1,356,165)	157,166	(155,923)	368,801	(240,384)	70,214	(70,214)	60,498,764	(47,503,143)	862,478	(862,478)	23,459	(15,573)	63,337,048	(50,203,880)
대구광역시	2,656,839	(2,656,839)	290,773	(289,174)	1,213,428	(957,344)	8,398	(8,398)	49,553,404	(44,322,306)	130,569	(130,569)	11,756	(10,816)	53,865,167	(48,375,446)
인천광역시	141,447	(141,447)	106,945	(107,113)	789,548	(713,204)	180,696	(180,696)	36,158,772	(29,127,858)	466,854	(466,854)	11,491	(11,491)	37,855,752	(30,748,664)
광주광역시			97,967	(96,752)	7,755	(7,247)	8,202	(8,202)	22,569,623	(18,615,766)	92,733	(92,733)	1,900	(1,900)	22,778,179	(18,822,600)
대전광역시	4,175	(4,175)	116,478	(114,767)	19,997	(21,337)	5,681	(5,681)	28,990,368	(29,166,968)	112,130	(112,130)	31,222	(11,151)	29,280,052	(29,436,209)
울산광역시	1,200,561	(1,200,561)	538,113	(538,108)	9,656,008	(8,545,878)	1,872,758	(10,244,596)	23,128,506	(22,659,179)	455,772	(455,772)	5,974	(3,462)	36,857,691	(43,647,555)
경기도	408,349	(408,349)	631,525	(629,452)	1,933,339	(1,569,413)	157,103	(157,103)	216,780,080	(231,239,809)	1,594,053	(1,594,053)	67,439	(62,094)	221,571,888	(235,660,272)
강원도	678,794	(678,794)	227,093	(214,568)	7,492,362	(6,007,430)	1,271,405	(1,271,405)	45,267,183	(50,498,461)	326,127	(326,127)	2,553	(2,553)	55,265,516	(58,999,337)
충청북도	125	(125)	161,026	(160,406)	4,225,544	(3,423,131)	822,427	(822,427)	63,216,597	(68,039,258)	354,921	(354,921)	20,661	(16,735)	68,801,302	(72,817,003)
충청남도	2,331,772	(2,331,772)	194,960	(194,066)	149,914	(155,572)	325,964	(325,963)	61,779,893	(75,384,315)	592,937	(592,937)	14,329	(14,329)	65,389,769	(78,998,954)
전라북도	26,421	(26,421)	218,956	(218,672)	161,990	(159,842)	81,011	(81,011)	59,117,897	(65,191,161)	428,564	(428,564)	36,006	(27,642)	60,070,844	(66,133,312)
전라남도	270,937	(270,937)	214,261	(214,484)	1,334,965	(1,088,862)	2,158,835	(1,889,005)	63,149,507	(71,281,552)	956,251	(956,251)	12,723	(12,228)	68,097,478	(75,713,318)
경상북도	20,803	(20,803)	266,001	(265,875)	1,857,061	(1,304,045)	4,431,443	(4,456,534)	94,891,067	(108,876,639)	870,398	(870,398)	19,882	(12,238)	102,356,654	(115,806,532)
경상남도	1,250,683	(1,250,683)	248,403	(247,650)	172,655	(177,042)	33,029	(33,029)	74,969,298	(80,955,292)	634,142	(634,142)	11,521	(11,521)	77,319,731	(83,309,358)
제주도	34,765	(34,765)	100,923	(101,030)	1,152	(822)	106	(106)	14,652,170	(15,099,479)	139,789	(139,789)	255	(255)	14,929,159	(15,376,246)
수도권 대기관리구역	566,446	(566,446)	1,405,689	(1,404,293)	2,457,555	(2,073,963)	293,233	(293,233)	351,928,825	(318,673,887)	2,270,898	(2,270,898)	83,347	(78,030)	359,005,992	(325,360,748)
수도권	568,738	(568,738)	1,461,038	(1,459,818)	2,733,829	(2,295,562)	337,799	(337,799)	392,894,578	(365,905,813)	2,460,074	(2,460,074)	89,308	(83,964)	400,545,362	(373,111,765)
전국	10,400,777	(10,400,777)	4,293,157	(4,271,292)	28,395,460	(24,384,498)	11,427,272	(19,554,371)	1,054,678,856	(1,063,499,331)	8,416,882	(8,416,882)	281,550	(224,366)	1,118,893,953	#####

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.6. 미세먼지(PM₁₀) 배출량

비산먼지제외 (단위: kg)

시도	에너지산업 연소		비산입 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	15,381	(15,381)	483,436	(484,176)	7,593	(8,909)			2,281,189	(1,976,677)	399,060	(399,060)	1,972	(1,972)	3,188,632	(2,886,175)
부산광역시	908,767	(908,767)	102,287	(101,684)	244,834	(159,029)	63,682	(63,682)	1,127,129	(1,049,502)	595,666	(595,666)	4,457	(2,959)	3,046,823	(2,881,289)
대구광역시	1,779,086	(1,779,086)	184,328	(183,434)	809,523	(638,145)	7,728	(7,728)	843,600	(923,195)	130,562	(130,562)	2,234	(2,055)	3,757,061	(3,664,205)
인천광역시	125,810	(125,810)	72,016	(72,177)	525,647	(474,638)	106,978	(106,978)	612,872	(507,727)	330,439	(330,439)	2,183	(2,183)	1,775,946	(1,619,952)
광주광역시			64,120	(63,409)	4,867	(4,565)	7,571	(7,571)	407,214	(372,125)	92,722	(92,722)	361	(361)	576,855	(540,754)
대전광역시	2,965	(2,965)	75,429	(74,430)	12,436	(13,277)	5,263	(5,263)	564,049	(660,305)	112,130	(112,130)	5,932	(2,119)	778,204	(870,488)
울산광역시	846,472	(846,472)	334,795	(334,825)	6,461,266	(5,720,730)	991,651	(6,087,483)	431,325	(528,105)	313,158	(313,158)	1,135	(658)	9,379,802	(13,831,432)
경기도	302,188	(302,188)	409,467	(408,478)	1,281,021	(1,037,518)	111,532	(111,532)	4,080,451	(5,189,255)	1,567,861	(1,567,861)	12,813	(11,798)	7,765,332	(8,628,630)
강원도	454,877	(454,877)	145,468	(137,823)	5,017,993	(4,023,258)	2,798	(2,798)	936,145	(1,207,590)	295,373	(295,373)	485	(485)	6,853,139	(6,122,204)
충청북도	78	(78)	103,677	(103,373)	2,828,371	(2,290,422)	97,953	(97,953)	1,450,464	(1,922,003)	354,919	(354,919)	3,926	(3,180)	4,839,388	(4,771,927)
충청남도	1,562,094	(1,562,094)	123,500	(123,037)	93,649	(97,696)	183,265	(183,265)	1,352,981	(1,907,935)	562,476	(562,476)	2,722	(2,723)	3,880,687	(4,439,225)
전라북도	17,670	(17,670)	139,173	(139,095)	100,634	(99,390)	68,994	(68,994)	1,247,514	(1,654,123)	402,505	(402,505)	6,841	(5,252)	1,983,331	(2,387,029)
전라남도	173,515	(173,515)	134,832	(135,075)	889,483	(724,712)	1,258,113	(1,062,534)	1,350,653	(1,820,014)	784,838	(784,838)	2,417	(2,323)	4,593,852	(4,703,011)
경상북도	13,706	(13,706)	170,302	(170,347)	1,233,363	(864,902)	2,731,160	(2,717,183)	2,131,170	(2,964,411)	829,101	(829,101)	3,778	(2,325)	7,112,581	(7,561,976)
경상남도	839,622	(839,622)	157,319	(157,111)	107,774	(110,865)	30,325	(30,325)	1,527,295	(1,987,161)	570,994	(570,994)	2,189	(2,189)	3,235,519	(3,698,268)
제주도	23,497	(23,497)	62,770	(62,869)	749	(579)	65	(65)	275,409	(343,121)	121,486	(121,486)	49	(49)	484,024	(551,666)
수도권 대기관리구역	441,917	(441,917)	930,039	(929,791)	1,630,569	(1,374,022)	176,811	(176,811)	6,129,811	(6,509,115)	2,108,184	(2,108,184)	15,836	(14,825)	11,433,167	(11,554,664)
수도권	443,379	(443,379)	964,919	(964,831)	1,814,260	(1,521,064)	218,510	(218,510)	6,974,512	(7,673,659)	2,297,361	(2,297,361)	16,969	(15,953)	12,729,910	(13,134,757)
전국	7,065,726	(7,065,728)	2,762,921	(2,751,348)	19,619,204	(16,288,635)	5,687,079	(10,553,354)	20,619,459	(25,013,249)	7,463,292	(7,463,292)	53,494	(42,629)	63,251,178	(69,156,230)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.7. 미세먼지(PM₁₀) 배출량[비산먼지 포함]

(단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	15,381	(15,381)	483,436	(484,176)	7,593	(8,909)			27,899,188	(21,232,806)	399,060	(399,060)	1,972	(1,972)	28,806,630	(22,142,304)
부산광역시	908,767	(908,767)	102,287	(101,684)	244,834	(159,029)	63,682	(63,682)	12,213,678	(9,714,345)	595,666	(595,666)	4,457	(2,959)	14,133,372	(11,546,132)
대구광역시	1,779,086	(1,779,086)	184,328	(183,434)	809,523	(638,145)	7,728	(7,728)	9,935,385	(9,017,338)	130,562	(130,562)	2,234	(2,055)	12,848,846	(11,758,349)
인천광역시	125,810	(125,810)	72,016	(72,177)	525,647	(474,638)	106,978	(106,978)	7,240,272	(5,836,467)	330,439	(330,439)	2,183	(2,183)	8,403,346	(6,948,692)
광주광역시			64,120	(63,409)	4,867	(4,565)	7,571	(7,571)	4,543,491	(3,772,382)	92,722	(92,722)	361	(361)	4,713,132	(3,941,010)
대전광역시	2,965	(2,965)	75,429	(74,430)	12,436	(13,277)	5,263	(5,263)	5,867,990	(5,974,549)	112,130	(112,130)	5,932	(2,119)	6,082,146	(6,184,733)
울산광역시	846,472	(846,472)	334,795	(334,825)	6,461,266	(5,720,730)	991,651	(6,087,483)	4,664,560	(4,654,654)	313,158	(313,158)	1,135	(658)	13,613,037	(17,957,980)
경기도	302,188	(302,188)	409,467	(408,478)	1,281,021	(1,037,518)	111,532	(111,532)	43,773,195	(47,377,427)	1,567,861	(1,567,861)	12,813	(11,798)	47,458,076	(50,816,802)
강원도	454,877	(454,877)	145,468	(137,823)	5,017,993	(4,023,258)	2,798	(2,798)	9,211,630	(10,409,754)	295,373	(295,373)	485	(485)	15,128,624	(15,324,368)
충청북도	78	(78)	103,677	(103,373)	2,828,371	(2,290,422)	97,953	(97,953)	12,998,878	(14,284,968)	354,919	(354,919)	3,926	(3,180)	16,387,801	(17,134,892)
충청남도	1,562,094	(1,562,094)	123,500	(123,037)	93,649	(97,696)	183,265	(183,265)	12,655,465	(15,646,855)	562,476	(562,476)	2,722	(2,723)	15,183,171	(18,178,145)
전라북도	17,670	(17,670)	139,173	(139,095)	100,634	(99,390)	68,994	(68,994)	12,065,398	(13,532,482)	402,505	(402,505)	6,841	(5,252)	12,801,215	(14,265,388)
전라남도	173,515	(173,515)	134,832	(135,075)	889,483	(724,712)	1,258,113	(1,062,534)	12,917,549	(14,820,728)	784,838	(784,838)	2,417	(2,323)	16,160,747	(17,703,725)
경상북도	13,706	(13,706)	170,302	(170,347)	1,233,363	(864,902)	2,731,160	(2,717,183)	19,479,468	(22,771,791)	829,101	(829,101)	3,778	(2,325)	24,460,879	(27,369,356)
경상남도	839,622	(839,622)	157,319	(157,111)	107,774	(110,865)	30,325	(30,325)	15,250,908	(16,744,011)	570,994	(570,994)	2,189	(2,189)	16,959,132	(18,455,117)
제주도	23,497	(23,497)	62,770	(62,869)	749	(579)	65	(65)	2,959,522	(3,097,476)	121,486	(121,486)	49	(49)	3,168,138	(3,306,021)
수도권 대기관리구역	441,917	(441,917)	930,039	(929,791)	1,630,569	(1,374,022)	176,811	(176,811)	70,566,295	(64,670,716)	2,108,184	(2,108,184)	15,836	(14,825)	75,869,651	(69,716,266)
수도권	443,379	(443,379)	964,919	(964,831)	1,814,260	(1,521,064)	218,510	(218,510)	78,912,855	(74,446,700)	2,297,361	(2,297,361)	16,969	(15,953)	84,668,053	(79,907,797)
전국	7,065,728	(7,065,728)	2,762,921	(2,751,343)	18,619,204	(16,268,635)	5,667,079	(10,553,354)	213,676,577	(218,888,032)	7,463,292	(7,463,292)	53,494	(42,629)	256,308,284	(263,033,013)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.8. 휘발성유기화합물(VOC) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산공정		에너지수송 및 저장		유기용제 사용		도로이동오염원		비도로이동오염원		폐기물처리		배출원대분류 합계	
서울특별시	87,628	(87,628)	836,247	(835,786)	35,295	(33,121)			4,144,286	(4,144,286)	45,359,714	(45,359,720)	28,057,839	(21,651,680)	1,318,224	(1,318,224)	117,018	(117,017)	79,956,250	(73,547,462)
부산광역시	3,969	(3,969)	141,273	(139,842)	70,378	(59,777)	256,140	(256,140)	1,370,916	(1,370,916)	19,989,759	(19,989,750)	8,462,919	(7,105,020)	995,268	(995,268)	1,146,323	(1,143,062)	32,436,946	(31,063,742)
대구광역시	23,407	(23,407)	121,158	(119,842)	121,143	(113,085)	156,265	(156,265)	1,490,924	(1,490,924)	13,212,240	(13,212,245)	5,223,712	(4,623,189)	370,786	(370,786)	610,337	(609,910)	21,329,972	(20,719,653)
인천광역시	654,521	(654,521)	138,357	(138,309)	125,681	(122,620)	6,017,742	(6,017,742)	1,765,502	(1,765,502)	24,005,350	(24,005,357)	5,099,448	(4,407,268)	600,725	(600,725)	3,032,879	(3,015,651)	41,440,206	(40,727,695)
광주광역시			63,887	(62,924)	16,615	(15,537)	45,092	(45,092)	497,098	(497,098)	7,364,147	(7,364,146)	3,297,385	(2,854,226)	274,222	(274,222)	397,427	(397,394)	11,955,873	(11,510,639)
대전광역시	20,413	(20,413)	79,387	(78,353)	29,347	(30,408)	57,194	(57,194)	905,861	(905,861)	5,035,964	(5,035,961)	3,060,577	(3,009,821)	313,063	(313,063)	4,217,459	(1,219,137)	13,719,265	(10,670,211)
울산광역시	440,309	(440,309)	67,267	(67,145)	448,824	(384,737)	46,825,236	(46,825,243)	1,926,057	(1,926,057)	25,140,756	(25,140,760)	2,173,265	(1,958,341)	500,251	(500,251)	1,118,289	(758,252)	78,640,256	(78,001,095)
경기도	685,627	(685,627)	469,637	(467,447)	446,179	(413,493)	621,211	(621,211)	4,113,905	(4,113,905)	89,285,404	(89,285,422)	21,499,753	(18,817,517)	4,423,794	(4,423,794)	4,860,706	(4,858,542)	126,406,216	(123,686,957)
강원도	275,784	(275,784)	98,883	(81,623)	138,098	(125,216)	57,266	(57,266)	955,013	(955,013)	7,297,588	(7,297,591)	4,357,563	(3,723,489)	634,163	(634,163)	296,813	(296,771)	14,111,171	(13,446,916)
충청북도	267	(267)	66,303	(65,338)	172,584	(168,364)	1,550,922	(1,550,922)	430,802	(430,802)	10,252,339	(10,252,335)	5,263,246	(4,378,877)	819,703	(819,703)	3,012,060	(2,458,724)	21,568,227	(20,125,332)
충청남도	687,515	(687,515)	70,637	(70,006)	229,178	(232,825)	17,136,074	(17,136,047)	1,335,203	(1,335,203)	13,759,811	(13,759,813)	5,035,060	(5,009,340)	1,185,791	(1,185,791)	1,412,189	(1,412,163)	40,851,457	(40,828,702)
전라북도	28,263	(28,263)	86,791	(86,387)	147,056	(141,862)	429,706	(429,706)	690,076	(690,076)	9,804,595	(9,804,598)	5,462,343	(4,871,513)	833,348	(833,348)	4,166,370	(4,162,989)	21,648,548	(21,048,742)
전라남도	145,030	(145,030)	80,767	(80,677)	127,940	(104,060)	41,387,024	(41,387,027)	1,470,813	(1,470,813)	12,683,878	(12,683,883)	5,323,586	(4,688,773)	1,366,367	(1,366,367)	1,814,270	(1,813,999)	64,399,676	(63,740,628)
경상북도	20,968	(20,968)	102,180	(101,854)	270,970	(234,098)	9,750,308	(9,750,303)	1,274,271	(1,274,271)	19,431,023	(19,431,022)	8,361,121	(7,834,771)	1,675,737	(1,675,737)	1,614,658	(1,611,519)	42,501,235	(41,934,542)
경상남도	389,250	(389,250)	120,081	(118,324)	177,790	(163,955)	222,718	(222,718)	1,330,092	(1,330,092)	37,179,138	(37,179,145)	7,500,521	(6,620,397)	1,126,077	(1,126,077)	1,199,614	(1,199,538)	49,245,281	(48,349,495)
제주도	103,837	(103,837)	27,709	(27,709)	3,019	(2,518)	9,471	(9,471)	237,523	(237,523)	2,632,323	(2,632,328)	1,491,033	(1,210,699)	275,886	(275,886)	51,534	(51,521)	4,832,334	(4,551,493)
수도권 대기관리구역	1,425,717	(1,425,717)	1,417,409	(1,414,703)	572,850	(534,753)	6,526,345	(6,526,345)	9,635,142	(9,635,142)	150,790,613	(150,789,903)	52,093,036	(42,912,842)	5,888,107	(5,883,107)	7,130,606	(7,111,234)	235,474,825	(226,233,746)
수도권	1,427,777	(1,427,777)	1,444,240	(1,441,543)	607,155	(569,234)	6,638,953	(6,638,953)	10,023,693	(10,023,693)	158,650,469	(158,650,498)	54,657,040	(44,876,484)	6,342,743	(6,342,743)	8,010,603	(7,991,210)	247,802,672	(237,962,115)
전국	3,566,788	(3,566,788)	2,570,562	(2,541,563)	2,560,097	(2,345,676)	124,522,369	(124,522,346)	23,938,342	(23,938,342)	342,434,029	(342,434,073)	119,669,372	(102,764,921)	16,713,405	(16,713,405)	29,067,948	(25,126,188)	665,042,913	(643,953,303)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)

10.9. 암모니아(NH₃) 배출량

식생제외 (단위: kg)

시도	에너지산업 연소		비산업 연소		제조업 연소		생산과정		도로이동오염원		비도로이동오염원		배출원대분류 합계	
서울특별시	28,028	(28,028)	507,823	(507,537)	18,760	(17,394)			1,895,334	(1,394,735)	29,391	(29,391)	2,479,336	(1,977,085)
부산광역시	980	(980)	143,355	(142,463)	38,493	(31,659)	6	(6)	643,584	(491,890)	29,746	(29,746)	856,164	(696,744)
대구광역시	8,744	(8,744)	115,547	(114,727)	62,663	(58,852)			487,512	(433,934)	8,405	(8,405)	682,871	(624,661)
인천광역시	167,150	(167,150)	125,760	(125,730)	63,360	(61,546)	2,763,861	(2,763,861)	436,203	(351,597)	17,723	(17,723)	3,574,056	(3,487,607)
광주광역시			52,193	(51,592)	11,167	(10,496)			235,416	(195,731)	6,602	(6,602)	305,378	(264,420)
대전광역시	15,677	(15,677)	53,638	(52,993)	17,796	(18,560)			279,375	(283,756)	6,289	(6,289)	372,775	(377,274)
울산광역시	272,589	(272,589)	59,745	(59,669)	215,491	(181,024)	12,632,570	(12,632,569)	259,859	(247,203)	15,846	(15,846)	13,456,101	(13,408,900)
경기도	250,262	(250,262)	396,308	(394,943)	242,640	(222,913)	4,002	(4,002)	2,381,110	(2,566,410)	113,638	(113,638)	3,387,959	(3,552,168)
강원도	26,957	(26,957)	119,162	(108,403)	23,290	(20,903)			465,881	(538,277)	15,025	(15,025)	650,315	(709,566)
충청북도	174	(174)	79,319	(78,717)	56,764	(57,518)			496,861	(551,454)	15,061	(15,061)	648,179	(702,925)
충청남도	85,654	(85,654)	108,486	(108,092)	139,695	(141,371)	3,458,275	(3,458,271)	511,485	(694,169)	25,629	(25,629)	4,329,223	(4,513,186)
전라북도	7,050	(7,050)	109,757	(109,505)	92,640	(89,842)	667,890	(667,890)	519,271	(591,402)	19,368	(19,368)	1,415,976	(1,485,057)
전라남도	77,585	(77,585)	133,775	(133,719)	76,362	(62,580)	13,320,005	(13,320,011)	493,089	(586,011)	35,540	(35,540)	14,136,357	(14,215,445)
경상북도	1,248	(1,248)	147,662	(147,459)	158,175	(136,518)	873,953	(873,953)	793,471	(962,377)	34,504	(34,504)	2,009,013	(2,156,059)
경상남도	12,457	(12,457)	148,561	(147,466)	116,776	(108,113)			715,722	(790,127)	27,272	(27,272)	1,020,789	(1,085,435)
제주도	26,290	(26,290)	36,258	(36,259)	1,662	(1,353)			148,666	(160,823)	6,795	(6,795)	219,672	(231,521)
수도권 대기관리권역	445,307	(445,307)	980,682	(978,974)	299,890	(276,710)	2,767,863	(2,767,863)	4,354,629	(3,875,490)	148,761	(148,761)	8,997,132	(8,493,106)
수도권	445,439	(445,439)	1,029,891	(1,028,209)	324,759	(301,854)	2,767,863	(2,767,863)	4,712,647	(4,312,742)	160,752	(160,752)	9,441,351	(9,016,860)
전국	980,845	(980,845)	2,337,349	(2,319,271)	1,335,734	(1,220,843)	33,720,583	(33,720,583)	10,762,839	(10,839,897)	406,833	(406,833)	48,544,163	(49,488,054)

()는 2003년 기준 배출량(산정 방법론 변경전 배출량)