

Supplementary Table 2. Raw data of annual mean concentrations of ozone and PM₁₀

	Year														
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Ozone (O₃), ppm															
Nationwide	0.020	0.019	0.020	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.024	0.025	0.026	0.027	0.027
Metropolitan area	0.017	0.016	0.016	0.017	0.019	0.019	0.019	0.020	0.022	0.020	0.021	0.023	0.023	0.025	0.024
Seoul	0.015	0.014	0.014	0.014	0.017	0.018	0.018	0.019	0.021	0.019	0.019	0.021	0.022	0.023	0.022
Busan	0.025	0.024	0.023	0.024	0.023	0.024	0.024	0.026	0.027	0.026	0.027	0.029	0.029	0.029	0.029
Daegu	0.019	0.018	0.020	0.022	0.022	0.020	0.021	0.023	0.023	0.022	0.025	0.026	0.025	0.026	0.026
Incheon	0.019	0.019	0.019	0.020	0.022	0.020	0.022	0.024	0.024	0.021	0.022	0.024	0.025	0.026	0.025
Gwangju	0.019	0.016	0.018	0.022	0.022	0.021	0.022	0.023	0.026	0.024	0.026	0.027	0.029	0.029	0.028
Daejeon	0.021	0.019	0.018	0.019	0.021	0.018	0.017	0.023	0.023	0.021	0.022	0.024	0.024	0.026	0.025
Ulsan	0.020	0.021	0.021	0.022	0.022	0.021	0.021	0.023	0.024	0.023	0.025	0.026	0.028	0.028	0.028
Gyeonggi	0.018	0.017	0.017	0.018	0.019	0.019	0.019	0.020	0.022	0.020	0.021	0.023	0.023	0.025	0.025
Gangwon	0.023	0.022	0.021	0.022	0.024	0.025	0.025	0.025	0.027	0.025	0.026	0.026	0.026	0.028	0.028
Chungbuk	0.020	0.021	0.021	0.021	0.021	0.022	0.023	0.021	0.024	0.022	0.024	0.025	0.026	0.026	0.025
Chungnam	0.026	0.026	0.024	0.025	0.024	0.021	0.021	0.025	0.027	0.025	0.024	0.027	0.028	0.029	0.028
Jeonbuk	0.020	0.019	0.018	0.018	0.019	0.022	0.020	0.023	0.025	0.023	0.024	0.026	0.028	0.030	0.030
Jeonnam	0.026	0.026	0.031	0.031	0.027	0.025	0.030	0.029	0.031	0.027	0.028	0.029	0.032	0.031	0.030
Gyeongbuk	0.022	0.023	0.024	0.024	0.025	0.024	0.024	0.025	0.026	0.024	0.027	0.027	0.028	0.029	0.030
Gyeongnam	0.026	0.024	0.026	0.026	0.022	0.026	0.026	0.027	0.028	0.025	0.026	0.030	0.030	0.030	0.030
PM₁₀, ppm															
Nationwide	58 (56)	61 (57)	58 (58)	59 (58)	57 (56)	59 (55)	58 (55)	54 (52)	53 (51)	51 (49)	50 (47)	45 (45)	49 (48)	49 (47)	48 (45)
Metropolitan area	68 (62)	72 (63)	68 (67)	64 (63)	63 (61)	65 (61)	65 (62)	58 (56)	59 (56)	56 (53)	54 (51)	47 (47)	51 (51)	52 (50)	51 (47)
Seoul	71 (65)	76 (65)	69 (69)	61 (59)	58 (56)	60 (55)	61 (58)	55 (53)	54 (51)	49 (47)	47 (44)	41 (41)	45 (44)	46 (44)	45 (41)
Busan	60 (56)	69 (63)	55 (55)	60 (60)	58 (58)	59 (55)	57 (54)	51 (50)	49 (48)	49 (47)	47 (45)	43 (43)	49 (49)	48 (47)	46 (45)
Daegu	67 (62)	71 (65)	59 (59)	- ^a	55 (54)	54 (50)	53 (49)	57 (54)	48 (46)	51 (48)	47 (44)	42 (42)	45 (45)	45 (44)	46 (45)
Incheon	52 (48)	57 (52)	61 (60)	62 (61)	61 (59)	68 (63)	64 (61)	57 (56)	60 (57)	55 (53)	55 (51)	47 (47)	49 (49)	49 (47)	53 (48)
Gwangju	57 (53)	52 (46)	36 (36)	46 (46)	49 (47)	55 (52)	52 (49)	50 (47)	46 (44)	45 (42)	43 (40)	38 (38)	42 (42)	41 (39)	43 (40)
Daejeon	48 (44)	53 (45)	43 (43)	49 (48)	48 (47)	49 (46)	49 (46)	45 (43)	43 (42)	44 (41)	44 (41)	39 (39)	42 (42)	41 (40)	46 (44)
Ulsan	- ^a	54 (47)	40 (39)	50 (50)	50 (49)	52 (48)	53 (49)	54 (52)	49 (48)	48 (46)	49 (47)	46 (45)	47 (47)	46 (45)	46 (45)
Gyeonggi	71 (66)	74 (65)	68 (68)	67 (66)	65 (63)	68 (63)	66 (63)	60 (58)	60 (58)	58 (56)	56 (53)	49 (49)	54 (54)	54 (53)	53 (49)
Gangwon	49 (46)	58 (51)	57 (57)	59 (58)	62 (60)	58 (53)	55 (50)	56 (55)	53 (50)	51 (48)	50 (47)	47 (46)	50 (50)	51 (49)	50 (47)
Chungbuk	63 (56)	54 (45)	57 (56)	57 (56)	52 (51)	57 (53)	62 (59)	61 (59)	61 (59)	62 (59)	56 (53)	51 (51)	56 (55)	52 (50)	51 (48)
Chungnam	54 (47)	54 (46)	47 (47)	54 (52)	52 (50)	51 (47)	54 (51)	49 (49)	47 (45)	46 (44)	44 (41)	41 (41)	42 (42)	42 (41)	46 (43)
Jeonbuk	64 (57)	55 (50)	44 (45)	48 (47)	50 (50)	56 (53)	59 (56)	50 (49)	53 (51)	53 (51)	51 (48)	49 (48)	51 (51)	51 (49)	50 (47)
Jeonnam	45 (42)	50 (45)	45 (45)	49 (48)	43 (42)	42 (41)	45 (42)	45 (44)	46 (44)	42 (39)	41 (38)	36 (36)	39 (38)	38 (36)	38 (37)
Gyeongbuk	51 (46)	59 (52)	56 (56)	59 (58)	55 (54)	57 (53)	55 (52)	53 (51)	49 (47)	47 (44)	48 (45)	45 (45)	50 (50)	49 (48)	45 (44)
Gyeongnam	51 (48)	51 (44)	48 (46)	57 (56)	54 (54)	51 (48)	49 (46)	48 (46)	46 (45)	46 (44)	46 (44)	42 (42)	47 (47)	48 (47)	46 (45)
Jeju	46 (38)	45 (40)	37 (37)	43 (41)	45 (43)	49 (47)	44 (40)	43 (42)	42 (41)	48 (43)	42 (39)	34 (33)	40 (40)	47 (44)	44 (42)

The values in parentheses are average values, except for the date of yellow dust.

PM₁₀, particulate matter 10 μm or less in diameter; ppm, parts per million.

^a- is less than effective measurement acquisition rate (75%).