AIR QUALITY
IN HONG KONG 2017

Statistical Summary

Air Science Group

Environmental Protection Department

The Government of the Hong Kong Special Administrative Region

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Table C1: 2017 Exceedance of Short-Term Limit Values of Air Quality Objectives

Pollutant: Sulphur Dioxide

(10-minute limit value = 500 μg/m^3 ; allowable no. of exceedance of limit value = 3)

Station	No. of exceedance of limit vaue	1st High	2nd High	3rd High	4th High
Central/Western	0	153	130	127	125
Eastern	0	64	60	57	54
Kwun Tong	0	55	54	54	53
Sham Shui Po	0	85	80	77	76
Kwai Chung	0	125	118	95	93
Tsuen Wan	0	118	110	106	105
Tseung Kwan O	0	52	50	45	39
Yuen Long	0	105	96	80	80
Tuen Mun	0	89	89	89	88
Tung Chung	0	92	87	87	87
Tai Po	0	47	45	44	39
Sha Tin	0	73	62	55	53
Tap Mun	0	34	33	33	32
Causeway Bay	0	102	100	98	95
Central	0	108	104	94	91
Mong Kok	0	98	91	90	83

Pollutant: Carbon Monoxide

(1-hour limit value = 30,000 μg/m^3 ; allowable no. of exceedance of limit value = 0)

Station	No. of exceedance of limit vaue	1st High
Tsuen Wan	0	1610
Tseung Kwan O	0	1830
Yuen Long	0	1450
Tuen Mun	0	1740
Tung Chung	0	1810
Tap Mun	0	1770
Causeway Bay	0	2420
Central	0	2050
Mong Kok	0	2390

Pollutant: Sulphur Dioxide

(24-hour limit value = 125 μg/m^3 ; allowable no. of exceedance of limit value = 3)

Station	No. of exceedance of limit vaue	1st High	2nd High	3rd High	4th High
Central/Western	0	31	30	29	29
Eastern	0	16	15	14	14
Kwun Tong	0	22	22	22	19
Sham Shui Po	0	32	27	26	25
Kwai Chung	0	31	28	25	24
Tsuen Wan	0	29	27	25	24
Tseung Kwan O	0	17	17	15	15
Yuen Long	0	24	22	21	20
Tuen Mun	0	33	30	28	26
Tung Chung	0	37	27	21	21
Tai Po	0	14	10	10	9
Sha Tin	0	17	16	16	16
Tap Mun	0	16	15	14	14
Causeway Bay	0	28	26	26	25
Central	0	27	25	25	24
Mong Kok	0	24	20	20	20

Pollutant: Carbon Monoxide

(8-hour limit value = 10,000 μg/m^3 ; allowable no. of exceedance of limit value = 0)

Station	No. of exceedance of limit vaue	1st High
Tsuen Wan	0	1414
Tseung Kwan O	0	1574
Yuen Long	0	1324
Tuen Mun	0	1630
Tung Chung	0	1544
Tap Mun	0	1543
Causeway Bay	0	2090
Central	0	1879
Mong Kok	0	2156

Pollutant: Nitrogen Dioxide (1-hour limit value = 200 μg/m^3 ; allowable no. of exceedance of limit value = 18)

Station	No. of exceedance of limit vaue	1st High	2nd High	3rd High	4th High	5th High	6th High	7th High	8th High	9th High	10th High	11th High	12th High	13th High	14th High	15th High	16th High	17th High	18th High	19th High
Central/Western	1	211	193	188	187	187	179	178	176	176	174	173	173	170	169	168	167	167	167	164
Eastern	0	191	187	183	164	161	157	156	154	152	151	145	144	142	142	142	140	140	140	139
Kwun Tong	18	245	240	235	233	228	227	226	225	220	216	216	210	209	208	206	204	203	202	199
Sham Shui Po	15	267	259	236	228	227	225	221	218	218	215	213	212	204	204	202	198	197	196	194
Kwai Chung	20	265	265	264	258	250	246	241	241	237	230	228	225	220	218	217	216	209	209	204
Tsuen Wan	8	236	230	215	209	207	202	202	201	200	198	196	195	193	192	192	190	190	181	179
Tseung Kwan O	2	211	201	198	193	192	191	188	185	185	177	175	173	170	169	168	167	167	166	165
Yuen Long	2	214	204	196	192	174	170	169	167	164	163	163	160	159	159	158	158	158	157	156
Tuen Mun	12	265	248	240	239	234	233	225	219	217	207	201	201	200	199	197	195	194	191	188
Tung Chung	2	227	222	196	189	186	165	163	162	161	160	155	151	149	148	147	147	145	145	144
Tai Po	0	148	147	141	139	138	137	136	135	134	131	131	130	130	129	128	128	128	128	127
Sha Tin	0	178	168	163	163	159	157	156	154	154	150	150	150	150	150	150	147	145	145	144
Tap Mun	0	85	75	73	69	65	62	60	60	59	58	56	56	54	54	54	54	53	53	52
Causeway Bay	272	466	445	424	411	394	382	379	379	371	362	357	349	340	337	336	336	336	333	325
Central	126	304	303	302	299	299	297	295	292	288	288	281	279	275	275	273	272	268	268	267
Mong Kok	90	342	332	302	296	293	293	290	284	280	279	276	275	273	270	265	260	260	258	257

Table C1 (Cont.): 2017 Exceedance of Short-Term Limit Values of Air Quality Objectives

Pollutant: Ozone (Daily maximum 8-hour limit value = 160 μg/m^3 ; allowable no. of exceedance of limit value = 9)

Station	No. of exceedance of limit value	1st High	2nd High	3rd High	4th High	5th High	6th High	7th High	8th High	9th High	10th High
Central/Western	9	305	281	226	226	197	196	191	173	162	159
Eastern	8	270	222	205	198	195	171	162	161	160	160
Kwun Tong	2	176	167	160	159	144	142	142	138	137	135
Sham Shui Po	3	256	250	187	155	144	134	133	133	131	130
Kwai Chung	4	264	215	194	174	158	156	143	142	138	129
Tsuen Wan	7	256	252	201	175	168	167	163	156	145	141
Tseung Kwan O	22	260	224	214	203	187	186	177	176	175	175
Yuen Long	13	272	255	253	252	214	210	194	185	184	175
Tuen Mun	20	293	272	257	242	237	218	206	184	181	176
Tung Chung	14	267	240	234	229	219	218	205	200	196	187
Tai Po	17	278	263	254	253	243	206	194	189	185	181
Sha Tin	14	265	256	241	232	197	183	175	171	169	167
Tap Mun	37	242	235	223	215	211	210	207	201	199	192
Causeway Bay	0	90	86	85	85	84	82	81	79	79	78
Central	0	151	151	128	118	117	114	112	107	105	103
Mong Kok	0	156	140	106	104	100	99	96	95	94	91

Pollutant: Respirable Suspended Particulates (PM_{10}) (24-hour limit value = 100 μg/m^3 ; allowable no. of exceedance of limit value = 9)

Station	No. of exceedance of limit value	1st High	2nd High	3rd High	4th High	5th High	6th High	7th High	8th High	9th High	10th High
Central/Western	1	104	100	96	93	92	89	88	86	85	84
Eastern	0	95	93	89	89	87	86	78	75	75	74
Kwun Tong	1	104	100	96	95	93	87	86	85	84	84
Sham Shui Po	0	85	79	77	77	75	75	73	73	73	72
Kwai Chung	0	90	89	86	80	79	78	77	76	74	74
Tsuen Wan	3	107	105	102	98	90	85	85	84	81	77
Tseung Kwan O	0	79	79	79	79	76	74	69	66	66	65
Yuen Long	2	111	101	99	91	90	90	90	88	88	87
Tuen Mun	9	134	129	122	117	115	113	112	106	103	99
Tung Chung	5	116	115	106	105	103	94	90	87	85	81
Tai Po	1	101	98	92	92	86	85	84	84	82	82
Sha Tin	1	103	89	83	81	81	79	79	77	72	72
Tap Mun	0	96	88	82	82	78	77	76	74	74	74
Causeway Bay	2	107	105	99	99	98	97	96	95	93	90
Central	2	107	104	98	92	92	89	89	87	87	84
Mong Kok	0	100	96	94	92	92	88	87	87	86	84

Pollutant: Fine Suspended Particulates ($PM_{2.5}$) (24-hour limit value = 75 μg/m^3 ; allowable no. of exceedance of limit value = 9)

Station	No. of exceedance of limit value	1st High	2nd High	3rd High	4th High	5th High	6th High	7th High	8th High	9th High	10th High
Central/Western	0	74	72	68	68	67	64	62	60	60	59
Eastern	0	61	58	57	55	54	54	50	49	49	49
Kwun Tong	0	66	64	62	61	59	57	55	54	54	53
Sham Shui Po	0	54	53	53	53	50	50	49	49	48	46
Kwai Chung	0	63	62	62	58	54	53	52	51	50	49
Tsuen Wan	3	84	82	76	75	67	65	63	56	56	52
Tseung Kwan O	0	55	55	52	51	48	45	45	45	44	43
Yuen Long	2	77	77	63	63	61	58	57	54	52	52
Tuen Mun	3	89	88	85	75	74	72	71	68	66	65
Tung Chung	2	88	76	74	73	68	67	62	61	57	57
Tai Po	0	75	73	66	66	65	63	61	59	59	55
Sha Tin	1	90	69	68	67	64	59	57	57	56	54
Tap Mun	0	56	50	49	47	47	46	45	44	44	43
Causeway Bay	4	81	80	79	77	73	73	70	70	66	65
Central	1	79	73	73	70	68	67	60	60	58	56
Mong Kok	1	76	73	71	69	68	65	63	63	61	57

Notes:

1. All concentration units are in microgram per cubic metre (μg/m^3).
2. Shaded no. of exceedance of limit value respresents exceedance of the respective air quality objective.
3. Shaded concentration is above the respective limit value of air qualtiy objectives.

Table C2: 2017 Monthly and Annual Averages of Air Pollutants

Pollutant: Sulphur Dioxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	7	9	7	11	12	5	7	11	9	8	8	8	8
Eastern	4	4	4	5	5	2	2	4	5	3	3	5	4
Kwun Tong	7	6	6	6	8	7	6	9	6	3	5	7	6
Sham Shui Po	8	9	6	7	9	8	7	10	11	7	5	8	8
Kwai Chung	7	6	6	10	9	13	9	16	13	7	6	7	9
Tsuen Wan	12	12	13	10	8	8	8	10	11	9	10	15	11
Tseung Kwan O	8	8	7	8	9	6	7	8	9	7	7	6	8
Yuen Long	10	10	9	10	10	7	7	9	10	8	9	12	9
Tuen Mun	6	6	7	8	10	6	7	9	10	7	8	12	8
Tung Chung	10	10	10	12	11	4	7	8	10	6	8	12	9
Tai Po	4	3	3	4	4	3	4	5	5	3	3	5	4
Sha Tin	8	7	6	6	9	8	5	7	8	7	6	9	7
Tap Mun	10	10	10	11	6	4	4	6	7	8	8	10	8
Causeway Bay	9	8	9	9	11	7	5	9	10	10	10	10	9
Central	5	6	6	7	10	8	9	12	9	6	7	10	8
Mong Kok	4	4	4	3	5	3	3	3	6	4	5	7	4

Pollutant: Nitrogen Oxides

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	64	67	71	61	66	32	42	46	57	41	56	62	55
Kwun Tong	61	71	56	78	81	112	72	107	93	48	63	69	76
Sham Shui Po	88	92	94	79	96	67	72	79	95	59	74	81	81
Kwai Chung	89	90	97	118	103	139	95	130	122	74	79	94	102
Tsuen Wan	87	87	91	91	79	78	68	68	77	51	66	79	77
Tseung Kwan O	33	37	31	45	52	54	41	56	62	30	32	34	42
Yuen Long	76	69	64	66	65	50	54	54	59	46	60	68	61
Tuen Mun	88	79	83	71	69	50	54	60	67	54	79	84	70
Tung Chung	68	60	51	50	50	28	33	38	47	40	66	77	51
Tai Po	57	52	54	55	54	56	48	49	60	48	55	62	54
Sha Tin	52	55	42	57	55	47	41	58	62	39	45	46	50
Tap Mun	15	12	18	16	11	8	6	10	11	7	11	14	12
Causeway Bay	241	242	260	271	277	331	271	330	343	247	287	325	286
Central	172	190	175	166	184	175	156	173	189	152	174	205	176
Mong Kok	162	165	157	166	180	172	171	182	196	124	144	155	164

Pollutant: Nitrogen Dioxide (Annual limit value = 40 μg/m^3)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	48	48	53	44	49	21	28	30	40	33	44	48	40
Eastern	49	49	55	48	50	24	29	30	43	36	42	44	42
Kwun Tong	43	44	37	44	47	49	36	53	54	33	41	45	44
Sham Shui Po	64	63	66	55	65	38	39	45	58	45	56	59	54
Kwai Chung	57	55	61	61	63	55	42	57	64	50	52	64	57
Tsuen Wan	62	58	61	57	58	43	39	44	52	41	50	60	52
Tseung Kwan O	25	26	24	31	33	28	23	32	38	24	23	26	28
Yuen Long	51	46	49	44	45	25	26	31	37	37	44	53	41
Tuen Mun	55	49	54	44	50	29	29	38	47	44	56	62	46
Tung Chung	44	40	36	33	38	18	21	24	33	34	48	58	36
Tai Po	41	38	41	40	39	31	29	33	41	39	43	48	39
Sha Tin	36	36	32	38	39	27	24	36	39	33	36	38	34
Tap Mun	13	10	14	14	9	6	5	8	8	6	10	13	10
Causeway Bay	93	95	103	100	104	81	75	87	110	99	100	117	97
Central	84	86	92	80	89	58	57	64	85	82	84	98	80
Mong Kok	86	86	90	84	93	59	64	71	92	74	81	89	81

Pollutant: Carbon Monoxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Tsuen Wan	853	718	840	846	811	583	591	532	482	519	593	705	672
Tseung Kwan O	817	818	877	908	934	737	743	716	815	791	811	912	824
Yuen Long	655	718	831	799	499	285	362	364	439	454	517	561	539
Tuen Mun	932	863	902	910	919	624	628	547	663	748	694	750	764
Tung Chung	902	603	626	575	537	421	410	518	482	612	635	759	591
Tap Mun	933	869	525	411	559	418	282	463	658	649	713	805	608
Causeway Bay	929	920	981	880	826	713	505	503	408	444	576	999	725
Central	1047	956	927	653	649	460	421	511	459	471	725	963	687
Mong Kok	1000	924	844	860	893	747	790	729	616	714	777	921	818

Table C2 (Cont.): 2017 Monthly and Annual Averages of Air Pollutants

Pollutant: Ozone

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	53	53	63	54	62	32	30	37	58	72	58	65	53
Eastern	61	64	69	63	69	39	38	43	61	76	67	76	61
Kwun Tong	53	57	66	50	56	14	25	22	43	69	56	66	48
Sham Shui Po	41	44	47	41	46	16	19	20	38	60	45	54	39
Kwai Chung	45	49	52	35	46	8	17	15	37	58	50	57	39
Tsuen Wan	42	46	54	39	50	15	21	25	42	64	48	57	42
Tseung Kwan O	72	75	90	66	76	25	34	35	57	86	78	86	65
Yuen Long	42	50	50	41	54	21	26	32	47	64	50	63	45
Tuen Mun	36	42	40	41	57	23	28	32	53	67	44	53	43
Tung Chung	34	40	60	55	75	35	32	36	51	62	43	48	48
Tai Po	54	63	70	54	65	23	32	39	55	68	57	68	54
Sha Tin	56	60	74	54	62	24	30	25	51	70	59	72	53
Tap Mun	78	86	89	71	86	36	43	45	70	100	81	95	74
Causeway Bay	21	25	30	22	22	5	7	6	13	24	18	21	18
Central	33	34	35	29	33	11	11	13	22	36	30	32	27
Mong Kok	24	26	33	23	26	7	9	11	21	41	31	38	24

Pollutant: Respirable Suspended Particulates (PM_{10}) (Annual limit value = 50 $\mu g/m^3$)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	45	42	51	36	33	16	13	20	29	37	40	56	35
Eastern	41	39	48	30	29	16	16	19	27	37	39	54	33
Kwun Tong	48	42	53	42	36	21	20	26	34	44	45	60	39
Sham Shui Po	41	38	46	36	33	19	19	23	29	34	34	44	33
Kwai Chung	42	39	44	37 *	32	26	22	28	34	37	37	49	35
Tsuen Wan	37	38	42	33	32	16	16	21	32	36	40	54	33
Tseung Kwan O	36	33	43	33	29	18	17	21	28	34	35	47	31
Yuen Long	54	46	48	40	36	17	17	22	32	47	54	59	40
Tuen Mun	59	50	52	40	40	18	20	22	34	47	57	78	43
Tung Chung	54	42	41	30	29	13	16	19	26	35	45	60	34
Tai Po	42	37	44	35	30	13	14	18	27	33	41	55	32
Sha Tin	41	33	41	32	27	16	15	18	28	34	36	53	31
Tap Mun	39	40	48	35	28	17	19	22	29	42	40	54	35
Causeway Bay	57	51	58	45	45	29	28	30	45	47	52	64	46
Central	42	41	48	35	30	14	14	18	30	31	35	56	33
Mong Kok	48	43	55	39	36	20	23	25	38	38	41	55	38

Pollutant: Fine Suspended Particulates ($PM_{2.5}$) (Annual limit value = 35 $\mu g/m^3$)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central/Western	31	29	31	24	22	8	10	12	20	23	25	35	23
Eastern	28	26	28	20	20	8	9	10	18	21	23	31	20
Kwun Tong	30	27	31	26	23	12	11	13	21	23	25	33	23
Sham Shui Po	29	26	29	23	22	11	12	14	20	21	22	29	21
Kwai Chung	30	28	30	25	22	15	15	18	23	23	24	30	23
Tsuen Wan	28	27	28	23	23	8	10	13	22	24	27	35	22
Tseung Kwan O	24	22	26	21	19	7	8	10	17	19	21	27	18
Yuen Long	28	25	25	21	20	10	12	14	20	24	26	38	22
Tuen Mun	39	35	33	26	27	10	12	14	21	28	35	45	27
Tung Chung	37	27	23	18	19	6	10	11	16	21	28	36	21
Tai Po	31	27	28	23	21	8	10	12	19	21	27	36	22
Sha Tin	29	25	27	21	19	9	10	12	20	22	25	36	21
Tap Mun	26	24	25	21	18	9	10	11	17	22	22	28	20
Causeway Bay	41	36	38	31	32	19	19	21	32	30	35	42	31
Central	28	28	28	21	19	6	10	12	22	19	23	36	21
Mong Kok	36	32	37	28	27	13	16	17	28	26	27	37	27

Notes:

1. All concentration units are in microgram per cubic metre ($\mu g/m^3$).
2. Shaded annual average represents exceedance of the respective air quality objective.
3. Monthly average marked with an asterisk denotes the data for calculation could not meet the data capture target of 480 hours in a month.

Table C3: 2017 Hourly Statistics of Air Pollutants

Pollutant: Sulphur Dioxide

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour
			10	25	50	75	90	95	97.5	99	99.8		
Central/Western	8561	97.7	4	5	7	9	14	20	27	37	51	8	110
Eastern	8586	98.0	1	1	3	5	7	10	13	18	28	4	51
Kwun Tong	8495	97.0	2	4	6	8	11	13	17	24	36	6	51
Sham Shui Po	8637	98.6	4	5	6	9	13	19	25	35	49	8	68
Kwai Chung	8613	98.3	3	4	6	10	19	25	31	39	55	9	88
Tsuen Wan	8384	95.7	5	7	10	12	16	21	27	36	49	11	93
Tseung Kwan O	8384	95.7	5	6	7	9	11	12	15	18	25	8	36
Yuen Long	8402	95.9	6	7	8	10	14	17	20	26	35	9	68
Tuen Mun	8631	98.5	3	4	6	10	14	19	24	34	54	8	73
Tung Chung	8404	95.9	4	6	8	10	13	17	23	32	55	9	71
Tai Po	8622	98.4	2	2	3	5	7	8	10	13	18	4	36
Sha Tin	8537	97.5	3	5	6	9	12	15	17	21	28	7	40
Tap Mun	8303	94.8	4	5	7	10	12	14	15	17	21	8	27
Causeway Bay	8626	98.5	4	6	8	11	14	18	23	29	44	9	97
Central	8657	98.8	3	5	7	9	14	18	23	30	43	8	84
Mong Kok	8558	97.7	1	2	3	5	8	12	17	28	44	4	83

Pollutant: Nitrogen Oxides

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour
			10	25	50	75	90	95	97.5	99	99.8		
Central/Western	8656	98.8	15	24	43	67	107	142	185	269	416	55	603
Kwun Tong	8537	97.5	21	33	57	97	160	205	241	291	377	76	602
Sham Shui Po	8632	98.5	26	45	72	101	136	179	232	308	474	81	805
Kwai Chung	8616	98.4	28	52	86	137	198	239	274	318	420	102	623
Tsuen Wan	8331	95.1	24	47	67	94	132	166	207	276	386	77	614
Tseung Kwan O	8458	96.6	15	19	26	47	91	131	170	213	300	42	393
Yuen Long	8400	95.9	24	35	51	75	108	134	161	204	310	61	414
Tuen Mun	8577	97.9	21	35	58	91	131	161	195	246	381	70	531
Tung Chung	8435	96.3	15	23	38	68	102	126	150	191	297	51	451
Tai Po	8666	98.9	22	33	48	68	92	109	129	158	212	54	349
Sha Tin	8569	97.8	17	23	37	61	104	137	166	194	233	50	362
Tap Mun	8234	94.0	3	6	10	15	21	27	34	45	68	12	89
Causeway Bay	8578	97.9	87	147	241	388	542	645	728	840	1076	286	1411
Central	8659	98.8	49	88	152	234	336	402	464	549	747	176	1109
Mong Kok	8620	98.4	59	102	157	210	271	321	372	439	571	164	847

Pollutant: Nitrogen Dioxide (1-hour limit value = 200 µg/m^3; allowable no. of exceedance of limit value = 18)

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour	No. of exceedance of limit value
			10	25	50	75	90	95	97.5	99	99.8			
Central/Western	8656	98.8	13	20	36	53	74	91	108	130	166	40	211	1
Eastern	8586	98.0	17	26	39	54	68	79	92	110	140	42	191	0
Kwun Tong	8537	97.5	15	24	38	56	77	95	117	153	202	44	245	18
Sham Shui Po	8632	98.5	22	33	49	70	91	107	123	147	195	54	267	15
Kwai Chung	8616	98.4	22	36	52	70	94	119	139	166	208	57	265	20
Tsuen Wan	8331	95.1	21	34	48	64	87	105	122	146	184	52	236	8
Tseung Kwan O	8458	96.6	10	14	20	31	56	78	100	124	166	28	211	2
Yuen Long	8400	95.9	17	24	36	51	70	85	100	119	157	41	214	2
Tuen Mun	8577	97.9	17	26	40	60	85	103	118	146	191	46	265	12
Tung Chung	8435	96.3	11	18	30	47	68	83	99	120	145	36	227	2
Tai Po	8666	98.9	17	25	36	49	64	74	85	99	128	39	148	0
Sha Tin	8569	97.8	12	18	28	43	64	83	102	122	145	34	178	0
Tap Mun	8234	94.0	2	5	8	13	18	23	29	38	53	10	85	0
Causeway Bay	8578	97.9	42	62	93	121	155	180	211	262	332	97	466	272
Central	8659	98.8	31	48	73	103	134	159	182	216	268	80	304	126
Mong Kok	8620	98.4	38	54	76	102	127	147	167	204	258	81	342	90

Pollutant: Carbon Monoxide (1-hour limit value = 30,000 µg/m^3 ; allowable no. of exceedance of limit value = 0)

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour	No. of exceedance of limit value
			10	25	50	75	90	95	97.5	99	99.8			
Tsuen Wan	8380	95.7	440	530	650	800	940	1040	1120	1220	1380	672	1610	0
Tseung Kwan O	8458	96.6	650	700	800	900	1040	1130	1250	1380	1571	824	1830	0
Yuen Long	8419	96.1	260	340	500	720	870	970	1050	1150	1320	539	1450	0
Tuen Mun	8634	98.6	530	610	740	890	1030	1140	1230	1350	1570	764	1740	0
Tung Chung	8438	96.3	370	430	540	690	860	1010	1200	1306	1510	591	1810	0
Tap Mun	8284	94.6	280	420	620	770	900	1010	1120	1360	1470	608	1770	0
Causeway Bay	8364	95.5	290	500	710	920	1160	1300	1450	1620	1980	725	2420	0
Central	8598	98.2	300	440	650	890	1130	1260	1350	1500	1708	687	2050	0
Mong Kok	8591	98.1	600	680	790	920	1080	1220	1340	1520	1910	818	2390	0

Table C3 (Cont.): 2017 Hourly Statistics of Air Pollutants

Pollutant: Ozone

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour
			10	25	50	75	90	95	97.5	99	99.8		
Central/Western	8565	97.8	11	25	45	76	103	120	135	161	265	53	408
Eastern	8586	98.0	23	34	53	82	106	120	134	157	224	61	371
Kwun Tong	8486	96.9	7	17	42	73	97	109	121	138	173	48	245
Sham Shui Po	8603	98.2	5	14	31	58	84	100	113	135	200	39	381
Kwai Chung	8569	97.8	3	9	30	61	87	103	116	135	219	39	364
Tsuen Wan	8294	94.7	5	14	32	63	89	106	122	148	239	42	368
Tseung Kwan O	8431	96.2	12	28	59	97	124	139	158	178	233	65	396
Yuen Long	8387	95.7	6	15	34	65	95	118	147	189	268	45	407
Tuen Mun	8623	98.4	6	14	31	61	94	117	145	192	303	43	434
Tung Chung	8430	96.2	7	19	38	67	97	118	138	177	294	48	382
Tai Po	8643	98.7	7	20	45	80	111	129	151	186	270	54	334
Sha Tin	8452	96.5	5	19	43	82	111	128	147	173	258	53	350
Tap Mun	8274	94.5	23	39	66	104	133	152	172	194	230	74	355
Causeway Bay	8569	97.8	1	3	10	27	45	58	69	83	97	18	140
Central	8640	98.6	2	5	17	40	67	83	94	109	144	27	214
Mong Kok	8553	97.6	2	6	17	36	57	73	84	99	123	24	279

Pollutant: Respirable Suspended Particulates (PM_{10})

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour
			10	25	50	75	90	95	97.5	99	99.8		
Central/Western	8352	95.3	12	18	31	48	64	76	87	103	135	35	186
Eastern	8497	97.0	11	17	29	45	62	71	81	94	113	33	139
Kwun Tong	8376	95.6	14	22	35	52	71	81	91	104	123	39	167
Sham Shui Po	8347	95.3	13	19	29	44	59	68	76	86	112	33	152
Kwai Chung	8062	92.0	14	21	31	46	62	72	83	95	123	35	165
Tsuen Wan	8480	96.8	10	17	28	45	62	74	87	110	145	33	256
Tseung Kwan O	8570	97.8	12	17	27	41	56	65	74	85	99	31	135
Yuen Long	8470	96.7	12	20	36	54	74	85	95	113	132	40	164
Tuen Mun	8540	97.5	13	21	38	58	82	96	111	135	167	43	214
Tung Chung	8548	97.6	9	15	27	47	68	83	98	122	165	34	268
Tai Po	8638	98.6	9	16	28	45	61	71	85	99	128	32	172
Sha Tin	7779	88.8	10	16	27	42	59	70	81	93	113	31	156
Tap Mun	8351	95.3	13	19	30	47	64	73	80	88	103	35	117
Causeway Bay	8484	96.8	20	29	42	59	76	88	101	116	149	46	172
Central	8398	95.9	9	15	28	46	64	77	92	110	139	33	184
Mong Kok	8337	95.2	15	22	34	51	67	79	91	106	135	38	182

Pollutant: Fine Suspended Particulates ($PM_{2.5}$)

Station	No. of hourly data	Data capture rate (%)	<----------Percentiles---------->									Arithmetic mean	Highest 1-hour
			10	25	50	75	90	95	97.5	99	99.8		
Central/Western	8409	96.0	6	10	19	31	43	52	63	75	100	23	133
Eastern	8498	97.0	5	10	17	28	39	46	53	61	73	20	92
Kwun Tong	8463	96.6	7	12	20	31	42	49	58	67	76	23	102
Sham Shui Po	8334	95.1	8	12	19	29	39	45	51	59	73	21	108
Kwai Chung	8068	92.1	10	14	20	30	41	49	56	67	84	23	102
Tsuen Wan	8483	96.8	6	10	18	31	43	52	63	79	105	22	210
Tseung Kwan O	8580	97.9	5	9	16	26	36	43	49	57	66	18	89
Yuen Long	8456	96.5	7	11	19	29	42	50	59	68	88	22	106
Tuen Mun	8553	97.6	8	13	24	37	51	62	73	86	110	27	153
Tung Chung	8545	97.5	4	8	15	29	44	55	67	83	109	21	209
Tai Po	8638	98.6	6	10	19	30	42	50	60	73	91	22	139
Sha Tin	7779	88.8	5	10	18	29	41	51	64	78	93	21	126
Tap Mun	8441	96.4	6	10	17	27	37	43	48	53	64	20	72
Causeway Bay	8482	96.8	13	19	28	40	54	63	74	88	113	31	139
Central	8399	95.9	4	9	17	30	43	54	65	79	105	21	136
Mong Kok	8337	95.2	10	15	23	35	48	57	66	77	102	27	141

Notes:

1. All concentration units are in microgram per cubic metre ($\mu g/m^3$).
2. Shaded no. of exceedance of limit value represents exceedance of the respective air quality objective.

Table C4: 2017 Diurnal Variations of Air Pollutants

Pollutant: Sulphur Dioxide

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	8	8	8	8	8	8	8	9	10	9	10	9	9	9	8	8	8	8	8	9	9	8	8	8
Eastern	4	4	4	3	3	3	4	5	4	4	4	3	3	3	3	3	4	4	4	4	6	4	4	4
Kwun Tong	6	6	6	10	7	6	6	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Sham Shui Po	8	7	7	12	8	7	7	8	8	8	8	8	8	8	7	8	8	8	8	8	8	7	7	7
Kwai Chung	8	8	7	8	7	7	7	8	9	9	9	9	10	10	10	12	12	11	11	10	9	8	8	8
Tsuen Wan	10	10	9	10	10	9	9	10	10	11	11	11	11	12	12	13	13	13	12	11	11	10	10	10
Tseung Kwan O	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7
Yuen Long	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Tuen Mun	7	7	7	6	6	6	7	8	8	8	8	8	8	8	9	9	9	9	9	9	8	8	8	8
Tung Chung	8	8	7	8	8	8	7	8	9	10	10	10	11	10	10	11	10	10	9	8	8	8	8	8
Tai Po	3	3	3	3	3	3	3	4	5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4
Sha Tin	7	7	7	9	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	7	7	7	7	7
Tap Mun	7	7	7	8	7	7	7	8	9	9	9	9	8	8	8	8	8	8	8	8	7	7	7	7
Causeway Bay	7	7	7	6	7	7	8	10	11	11	10	10	10	10	10	10	10	10	10	10	9	9	9	8
Central	7	6	6	6	6	6	7	9	10	9	9	8	8	8	8	8	8	9	10	10	9	8	7	7
Mong Kok	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	6	5	5	4	4	4

Pollutant: Nitrogen Oxides

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	46	38	32	28	28	31	41	64	77	77	71	62	57	57	58	61	61	64	69	70	67	61	56	53
Kwun Tong	59	41	35	32	32	43	76	106	112	104	93	84	81	77	80	83	90	99	104	96	81	73	71	69
Sham Shui Po	67	51	43	41	40	48	69	91	106	103	94	88	86	89	92	96	103	107	109	101	88	82	81	76
Kwai Chung	81	60	50	44	47	53	81	119	143	136	123	114	111	115	120	130	138	138	139	126	107	99	95	90
Tsuen Wan	61	41	33	31	29	35	60	87	100	99	91	86	83	86	88	91	97	104	107	99	87	78	76	72
Tseung Kwan O	46	41	33	32	33	40	59	59	44	37	34	33	30	31	33	34	37	44	49	54	53	50	51	51
Yuen Long	55	46	40	34	35	43	67	88	75	64	56	53	50	52	55	59	67	72	76	79	74	71	69	65
Tuen Mun	59	50	42	35	36	43	62	88	88	86	81	73	65	65	67	71	76	85	94	94	88	81	77	68
Tung Chung	44	37	32	31	28	33	43	55	61	59	60	60	60	59	59	58	57	57	58	56	54	51	48	47
Tai Po	49	40	32	30	32	37	60	88	82	64	55	50	47	48	49	52	58	64	67	66	61	56	57	55
Sha Tin	55	44	37	33	32	36	51	68	67	55	47	42	39	37	39	42	48	53	59	63	62	62	62	60
Tap Mun	11	10	10	10	10	10	11	12	15	16	15	13	11	11	10	11	11	12	12	12	11	11	11	11
Causeway Bay	207	147	129	110	103	107	185	303	370	366	346	355	360	380	360	358	382	385	379	357	307	304	317	258
Central	119	91	81	72	70	77	116	184	262	251	231	215	203	189	215	228	221	243	274	233	184	165	156	143
Mong Kok	127	93	82	74	74	76	112	156	192	195	194	191	194	204	200	206	228	233	239	208	179	171	171	158

Pollutant: Nitrogen Dioxide

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	33	28	25	22	21	23	29	41	46	47	45	43	41	42	44	47	50	52	56	55	52	46	42	39
Eastern	35	29	25	23	23	25	37	48	50	48	45	43	42	43	45	48	52	54	54	52	50	46	42	40
Kwun Tong	37	26	23	21	21	26	41	51	53	50	46	45	45	45	48	51	56	61	63	58	51	46	44	42
Sham Shui Po	46	36	31	28	28	32	43	54	59	58	56	56	57	60	63	67	72	77	78	73	65	60	56	52
Kwai Chung	46	36	31	28	29	32	43	56	63	62	61	60	62	66	71	77	81	81	79	72	63	58	55	51
Tsuen Wan	44	31	26	25	23	27	42	52	56	55	53	52	54	57	60	64	68	74	77	71	63	57	54	51
Tseung Kwan O	30	26	22	20	21	24	30	32	27	23	21	20	20	21	22	24	28	33	38	40	38	36	35	33
Yuen Long	38	33	29	26	26	29	36	42	41	38	35	34	34	36	38	43	49	54	57	57	52	49	46	43
Tuen Mun	41	36	32	27	27	30	38	46	47	47	46	44	42	44	47	51	56	64	69	67	61	56	51	46
Tung Chung	31	27	24	22	21	24	28	32	35	36	38	39	41	42	44	45	45	45	45	43	40	37	34	33
Tai Po	37	31	26	25	25	28	38	47	46	40	36	34	33	34	36	39	43	49	53	52	48	44	43	41
Sha Tin	37	30	26	23	23	25	32	39	40	35	31	28	27	26	28	31	36	41	46	48	46	44	42	40
Tap Mun	9	9	9	9	9	9	9	10	12	12	11	10	9	9	8	9	9	10	11	11	10	10	10	10
Causeway Bay	76	60	54	48	46	47	68	95	103	107	107	113	118	125	125	128	130	129	127	119	109	105	105	90
Central	59	48	44	40	39	41	54	74	93	94	92	93	92	92	103	108	107	110	115	105	90	80	74	69
Mong Kok	66	52	46	43	43	43	57	71	80	83	86	89	94	100	101	105	111	113	112	103	92	88	84	78

Pollutant: Carbon Monoxide

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Tsuen Wan	639	598	573	569	572	591	647	702	717	694	677	658	655	662	662	664	677	702	748	763	758	739	721	687
Tseung Kwan O	846	826	812	769	787	794	827	839	823	807	797	789	785	785	786	788	797	819	862	880	883	884	885	875
Yuen Long	558	531	524	500	487	491	535	567	550	525	512	505	504	502	497	504	520	544	575	602	609	605	595	583
Tuen Mun	751	731	719	701	721	727	744	793	777	772	779	758	752	749	743	743	750	767	810	831	834	820	799	774
Tung Chung	582	565	557	557	550	553	569	583	588	583	584	588	597	604	607	600	605	613	626	628	622	612	604	595
Tap Mun	603	598	593	595	596	605	615	623	626	619	618	617	617	617	613	608	607	605	603	600	602	602	603	607
Causeway Bay	728	720	717	712	659	629	618	634	682	726	747	748	759	758	744	737	738	746	765	802	810	786	730	697
Central	651	604	593	564	547	557	579	629	691	730	733	708	710	723	726	712	718	740	800	821	802	769	708	669
Mong Kok	816	828	795	743	761	726	719	747	795	801	787	774	786	838	854	855	880	904	939	922	885	848	822	816

Table C4 (Cont.): 2017 Diurnal Variations of Air Pollutants

Pollutant: Ozone

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	52	55	55	56	55	53	46	37	35	38	45	54	62	66	69	68	66	61	53	50	49	50	50	51
Eastern	58	61	62	62	61	58	47	41	42	49	56	64	71	75	76	75	72	68	65	62	58	57	57	57
Kwun Tong	45	50	50	50	49	45	36	31	32	38	45	52	56	60	62	62	58	52	47	46	47	46	45	44
Sham Shui Po	38	44	46	46	45	41	33	26	25	29	36	43	48	52	53	51	45	38	33	33	35	35	35	36
Kwai Chung	38	44	45	46	45	41	33	25	25	29	36	42	47	48	49	47	42	38	35	35	37	36	36	37
Tsuen Wan	38	45	48	47	47	42	31	26	28	34	41	48	54	57	60	58	52	44	35	33	34	35	33	34
Tseung Kwan O	54	55	55	52	54	50	45	45	52	61	70	78	85	89	92	93	89	81	71	64	60	57	55	55
Yuen Long	35	36	37	38	37	33	27	24	29	38	50	61	71	77	80	76	65	55	43	37	35	33	32	32
Tuen Mun	37	39	41	42	41	37	29	24	27	33	41	52	63	71	75	72	64	49	37	32	32	32	33	35
Tung Chung	41	43	44	44	43	39	35	32	34	39	45	52	59	66	72	72	69	60	47	42	41	41	41	41
Tai Po	43	45	47	45	43	39	31	28	34	47	59	70	80	86	87	84	78	67	57	52	49	48	44	43
Sha Tin	41	44	46	46	44	41	35	33	37	47	58	67	75	82	83	81	76	67	56	49	46	43	41	41
Tap Mun	62	60	59	57	55	53	51	53	57	65	74	85	93	99	102	101	100	95	88	81	75	70	67	64
Causeway Bay	19	25	26	29	29	28	20	13	10	11	13	14	15	16	17	17	16	17	16	16	16	15	15	17
Central	31	36	38	39	39	35	27	18	13	15	18	22	27	30	28	27	26	23	20	20	23	25	27	28
Mong Kok	24	31	33	34	34	33	24	16	15	16	20	24	27	29	30	29	24	21	18	19	20	20	20	20

Pollutant: Respirable Suspended Particulates (PM_{10})

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	34	33	32	32	31	31	31	32	33	35	37	38	37	36	38	39	39	38	38	38	38	37	35	34
Eastern	33	32	32	31	31	30	29	29	30	30	31	32	32	31	32	34	36	36	36	37	38	37	36	34
Kwun Tong	38	37	36	35	34	34	34	35	37	39	41	42	42	41	42	43	42	43	43	43	43	42	40	39
Sham Shui Po	30	29	28	28	28	28	29	30	30	31	32	32	33	35	36	38	39	39	40	40	39	36	34	32
Kwai Chung	31	30	30	29	29	29	30	31	35	37	38	36	35	39	42	43	43	41	41	39	38	36	35	33
Tsuen Wan	30	29	28	27	27	26	27	28	29	32	34	35	35	36	40	41	40	39	38	37	36	35	32	31
Tseung Kwan O	31	30	29	29	28	27	27	27	28	29	29	30	30	30	31	33	36	36	36	35	35	34	32	31
Yuen Long	37	35	35	34	33	33	34	36	38	41	42	43	43	43	44	45	45	44	44	43	43	42	40	38
Tuen Mun	40	39	37	37	36	36	36	37	40	42	44	45	46	45	47	49	50	50	49	49	49	47	45	43
Tung Chung	31	30	29	29	28	28	28	29	30	33	36	37	38	40	43	44	43	41	38	36	35	33	32	32
Tai Po	32	32	31	30	30	30	30	31	32	33	33	33	33	33	33	33	33	33	34	35	35	34	33	33
Sha Tin	31	30	30	29	29	29	29	30	31	32	31	31	31	32	31	33	34	33	33	33	33	32	32	31
Tap Mun	32	32	32	32	32	33	34	34	35	36	36	36	37	37	37	38	37	37	37	36	35	34	33	33
Causeway Bay	43	38	33	32	31	31	33	39	44	47	49	50	49	51	54	54	53	54	54	57	57	53	50	47
Central	33	30	29	28	28	27	28	29	32	35	34	33	33	34	36	37	37	37	36	37	37	36	34	33
Mong Kok	36	34	32	31	30	30	31	34	36	38	40	40	40	41	43	43	43	43	43	46	47	44	40	38

Pollutant: Fine Suspended Particulates ($PM_{2.5}$)

Station	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	Hr24
Central/Western	21	21	21	20	20	20	20	21	22	23	23	24	24	24	25	25	25	24	24	24	25	24	23	22
Eastern	20	19	19	19	19	18	19	19	19	19	19	19	20	20	20	20	21	21	21	22	23	23	22	20
Kwun Tong	22	21	21	21	21	21	21	22	22	23	24	23	23	23	24	24	24	24	25	25	26	25	24	23
Sham Shui Po	20	19	18	18	18	19	20	20	21	21	21	20	20	21	22	23	24	24	25	26	26	24	22	21
Kwai Chung	21	20	20	20	20	20	21	22	24	24	24	23	22	24	26	26	27	26	26	26	26	25	24	22
Tsuen Wan	21	20	19	19	19	18	18	19	20	21	22	23	23	24	25	26	26	26	25	26	26	25	23	21
Tseung Kwan O	19	18	18	17	17	17	17	17	18	18	18	18	18	18	18	19	20	20	20	20	20	20	19	19
Yuen Long	20	20	19	19	19	19	20	22	22	22	22	22	22	22	23	24	24	24	25	25	25	24	22	21
Tuen Mun	26	25	24	24	24	24	24	25	26	26	27	27	27	27	28	29	30	30	30	30	31	31	29	28
Tung Chung	19	18	18	18	17	17	17	18	19	20	21	22	22	24	26	26	26	24	23	22	22	21	20	20
Tai Po	22	21	21	20	20	20	21	21	22	22	22	22	22	22	22	22	22	22	23	24	24	23	23	22
Sha Tin	21	20	20	20	20	20	20	21	22	22	21	21	21	22	21	22	23	22	22	22	22	22	22	21
Tap Mun	18	18	18	18	18	19	20	20	20	20	20	20	20	20	21	21	20	21	21	21	20	19	19	18
Causeway Bay	29	26	22	22	21	21	22	27	30	31	32	32	33	35	37	36	36	37	37	40	41	38	36	33
Central	21	19	19	18	18	18	18	19	21	22	21	21	21	22	23	23	23	23	23	24	24	23	22	21
Mong Kok	25	23	22	22	21	21	22	24	26	27	27	27	27	29	29	29	29	29	30	33	34	32	29	27

Note:

1. All concentration units are in microgram per cubic metre ($\mu g/m^3$).