

A ***IR QUALITY*** IN HONG KONG 2010

Preliminary Report

Air Science Group

•
Environmental Protection Department

•
**The Government of the Hong Kong
Special Administrative Region**

Tables of Air Quality Data

<u>Table No.</u>	<u>Title</u>
C1.	The highest four hourly pollutant concentrations measured in 2010
C2.	The highest two daily pollutant concentrations measured in 2010
C3.	2010 Monthly and annual averages of gaseous pollutants
C4.	2010 Monthly and annual averages of particulate pollutants
C5.	2010 Hourly Statistics of major air pollutants
C6.	2010 Total wet and dry deposition
C7.	2010 Diurnal variations of air pollutant

TABLE C1: THE HIGHEST 4 HOURLY POLLUTANT CONCENTRATIONS MEASURED IN 2010

Pollutant: Sulphur Dioxide *
(1-hour AQO = 800)

Station	1st High	2nd High	3rd High	4th High
Central / Western	260	219	133	124
Eastern	133	107	99	83
Kwai Chung	211	208	204	202
Kwun Tong	99	89	89	87
Sham Shui Po	258	234	214	208
Tsuen Wan	170	156	143	131
Sha Tin	121	112	110	110
Tai Po	68	67	63	60
Tung Chung	113	108	108	104
Yuen Long	154	129	118	107
Tap Mun	64	58	57	57
Causeway Bay	233	166	116	102
Central	303	168	155	134
Mong Kok	229	217	177	164

Pollutant: Nitrogen Oxides

Station	1st High	2nd High	3rd High	4th High
Central / Western	859	804	789	783
Kwai Chung	1040	983	926	915
Kwun Tong	1008	984	937	897
Sham Shui Po	1356	1253	1122	1104
Tsuen Wan	728	685	680	669
Sha Tin	730	707	674	663
Tung Chung	584	480	479	475
Yuen Long	717	648	633	620
Tap Mun	231	137	131	113
Causeway Bay	1696	1358	1297	1293
Central	1673	1654	1610	1505
Mong Kok	1415	1406	1343	1305

Pollutant: Nitric Oxide

Station	1st High	2nd High	3rd High	4th High
Central / Western	424	422	411	411
Kwai Chung	543	485	473	469
Kwun Tong	532	531	522	506
Sham Shui Po	726	684	621	608
Tsuen Wan	353	345	342	337
Sha Tin	395	372	355	331
Tung Chung	284	225	217	216
Yuen Long	366	327	319	299
Tap Mun	83	54	42	36
Causeway Bay	850	665	663	635
Central	946	922	895	830
Mong Kok	756	718	697	690

Notes:

1. All concentration units are in microgram per cubic metre.
2. Shaded 1-hour averages are above their respective AQO.
3. Only the asterisked pollutants have hourly AQO.

Pollutant: Nitrogen Dioxide *
(1-hour AQO = 300)

Station	1st High	2nd High	3rd High	4th High
Central / Western	255	215	208	208
Eastern	236	231	209	205
Kwai Chung	280	280	275	275
Kwun Tong	242	241	239	236
Sham Shui Po	300	296	286	280
Tsuen Wan	276	255	247	243
Sha Tin	248	242	209	201
Tai Po	174	173	165	164
Tung Chung	255	253	230	228
Yuen Long	228	228	226	226
Tap Mun	104	83	81	75
Causeway Bay	398	386	386	383
Central	423	381	377	372
Mong Kok	405	405	399	356

Pollutant: Carbon Monoxide *
(1-hour AQO = 30000)

Station	1st High	2nd High	3rd High	4th High
Tsuen Wan	2320	2320	2290	2290
Tung Chung	2910	2710	2560	2520
Yuen Long	2730	2530	2520	2520
Tap Mun	2310	2250	2230	2180
Causeway Bay	4710	4710	4600	4600
Central	4370	4030	4030	3790
Mong Kok	4030	3790	3790	3560

Pollutant: Ozone *
(1-hour AQO = 240)

Station	1st High	2nd High	3rd High	4th High
Central / Western	286	278	270	264
Eastern	252	240	234	224
Kwai Chung	245	235	225	213
Kwun Tong	143	142	140	138
Sham Shui Po	252	249	236	235
Tsuen Wan	240	219	211	208
Sha Tin	277	268	267	239
Tai Po	238	222	221	220
Tung Chung	341	321	309	303
Yuen Long	280	271	255	253
Tap Mun	259	252	248	246

Pollutant: Respirable Suspended Particulates

Station	1st High	2nd High	3rd High	4th High
Central / Western	732	718	712	706
Eastern	775	775	769	768
Kwai Chung	628	615	610	609
Kwun Tong	785	777	777	772
Sham Shui Po	630	615	609	609
Tsuen Wan	731	702	692	687
Sha Tin	783	778	768	758
Tai Po	732	723	721	707
Tung Chung	640	629	627	624
Yuen Long	602	590	564	564
Tap Mun	715	707	706	705
Causeway Bay	707	703	695	693
Central	716	709	708	706
Mong Kok	775	763	751	744

All the highest 4 hourly RSP readings above were recorded when Hong Kong was affected by a dust plume originated from northern part of China in March 2010.

TABLE C2: THE HIGHEST 2 DAILY POLLUTANT CONCENTRATIONS MEASURED IN 2010

Pollutant: Sulphur Dioxide *
(24-hour AQO = 350)

Station	1st High	2nd High
Central / Western	49	49
Eastern	35	33
Kwai Chung	94	82
Kwun Tong	34	34
Sham Shui Po	78	73
Tsuen Wan	52	52
Sha Tin	40	40
Tai Po	33	29
Tung Chung	59	53
Yuen Long	54	53
Tap Mun	38	31
Causeway Bay	45	41
Central	49	46
Mong Kok	68	52

Pollutant: Nitrogen Dioxide *
(24-hour AQO = 150)

Station	1st High	2nd High
Central / Western	134	121
Eastern	128	124
Kwai Chung	159	149
Kwun Tong	123	121
Sham Shui Po	147	144
Tsuen Wan	142	133
Sha Tin	127	118
Tai Po	101	99
Tung Chung	149	139
Yuen Long	160	141
Tap Mun	42	39
Causeway Bay	234	216
Central	241	225
Mong Kok	205	196

Pollutant: Respirable Suspended Particulates *
(24-hour AQO = 180)

Station	1st High	2nd High
Central / Western	636 ^	237 ^
Eastern	691 ^	294 ^
Kwai Chung	505 ^	175 ^
Kwun Tong	681 ^	237 ^
Sham Shui Po	569 ^	197 ^
Tsuen Wan	533 ^	195 ^
Sha Tin	651 ^	216 ^
Tai Po	627 ^	220 ^
Tung Chung	475 ^	159
Yuen Long	361 ^	161
Tap Mun	609 ^	258 ^
Causeway Bay	613 ^	223 ^
Central	628 ^	251 ^
Mong Kok	656 ^	236 ^

Pollutant: Nitrogen Oxides

Station	1st High	2nd High
Central / Western	371	299
Kwai Chung	495	410
Kwun Tong	417	416
Sham Shui Po	458	420
Tsuen Wan	384	281
Sha Tin	337	306
Tung Chung	278	255
Yuen Long	337	311
Tap Mun	54	50
Causeway Bay	749	699
Central	755	733
Mong Kok	667	620

Pollutant: Nitric Oxide

Station	1st High	2nd High
Central / Western	164	146
Kwai Chung	226	165
Kwun Tong	208	193
Sham Shui Po	206	189
Tsuen Wan	158	138
Sha Tin	137	133
Tung Chung	91	78
Yuen Long	128	99
Tap Mun	11	10
Causeway Bay	337	317
Central	382	373
Mong Kok	308	297

Pollutant: Total Suspended Particulates *
(24-hour AQO = 260)

Station	1st High	2nd High
Central / Western	277 ^	187
Kwai Chung	234	176
Kwun Tong	142	134
Sham Shui Po	299 ^	170
Tsuen Wan	139	121
Sha Tin	705 ^	135
Tai Po	216 ^	138
Tung Chung	231	196
Yuen Long	249	205
Mong Kok	743 ^	187

The RSP and TSP readings marked with ^ in the tables above were recorded when Hong Kong was affected by a dust plume originated from northern part of China in March 2010.

Pollutant: Ozone

Station	1st High	2nd High
Central / Western	108	106
Eastern	109	109
Kwai Chung	102	82
Kwun Tong	110	90
Sham Shui Po	89	87
Tsuen Wan	93	85
Sha Tin	132	115
Tai Po	96	95
Tung Chung	115	113
Yuen Long	100	98
Tap Mun	155	147

Pollutant: Carbon Monoxide *
(8-hour AQO = 10000)

Station	1st High	2nd High
Tsuen Wan	2186	2156
Tung Chung	2469	2438
Yuen Long	2318	2309
Tap Mun	2144	2124
Causeway Bay	3378	3363
Central	2961	2919
Mong Kok	3219	3205

Notes:

1. All concentration units are in microgram per cubic metre.
2. Values for Carbon Monoxide are 8-hour averages.
3. Shaded 24-hour averages are above their respective AQO.
4. Only the asterisked pollutants have either 8-hour or 24-hour AQO.

TABLE C3: 2010 MONTHLY AND ANNUAL AVERAGES OF GASEOUS POLLUTANTS
Pollutant: Sulphur Dioxide (Annual AQO = 80)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	15	8	11	8	8	8	7	12	11	9	11	17	10
Eastern	11	4	9	5	5	5	5	10	13	10	11	11	8
Kwai Chung	13	21	22	19	23	39	35	25	23	9	14	14	21
Kwun Tong	11	7	10	10	8	7	7	10	12	9	11	12	10
Sham Shui Po	13	9	17	13	16	13	10	19	20	9	12	17	14
Tsuen Wan	13	14	19	13	14	17	13	16	20	12	14	19	15
Sha Tin	9	7	11	8	8	13	13	12	14	13	14	16	12
Tai Po	10	6	9	6	5	5	8 *	6	9	10	9	10	8
Tung Chung	13	7	13	12	11	9	8	11	13	15	15	19	12
Yuen Long	9	6	15	11	8	8	9	13	13	11	10	17	11
Tap Mun	11	6	10	9	9	9	9	7	9	13	12	15	10
Causeway Bay	10	7	9	5	5	7	5	7	8	7	9	12	8
Central	16	10	15	12	10	8	5	11	13	9	11	15	11
Mong Kok	13	10	15	9	8	8	7	12	15	9	12	17	11

Pollutant: Nitrogen Oxides

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	132	115	112	105	78	65	51	74	70	60	89	118	89
Kwai Chung	148	160	150	137	132	163	131	138	140	102	141	174	143
Kwun Tong	115	122	133	115	105	124	109	101	126	86	112	150	116
Sham Shui Po	147	132	144	139	127	113	96	121	127	94	121	163	127
Tsuen Wan	122	127	129	120	113	119	95	106	119	81	118	139	115
Sha Tin	80	61	77	61	55	64	52	78	72	47	97	122	72
Tung Chung	95	63	81	63	53	54	36	61	63	55	94	107	69
Yuen Long	113	82	105	86	81	89	78	94	99	66	117	147	97
Tap Mun	19	14	18	15	14	13	13	13	19	13	16	20	16
Causeway Bay	323	334	315	300	268	297	293	327	348	222	316	408	312
Central	323	337	376	319	314	323	285	337	324	336	355	408	336
Mong Kok	314	303	320	309	322	325	296	306	312	217	291	343	305

Pollutant: Nitric Oxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	42	39	32	30	16	19	17	21	15	7	14	27	23
Kwai Chung	52	65	53	49	47	69	58	54	48	26	37	56	51
Kwun Tong	36	44	45	36	30	46	44	33	44	19	26	47	38
Sham Shui Po	46	46	47	43	36	36	35	40	37	17	23	47	38
Tsuen Wan	37	46	42	37	34	42	36	34	32	14	23	35	34
Sha Tin	23	16	21	15	12	19	18	28	18	5	25	39	20
Tung Chung	26	19	22	15	11	14	12	17	16	6	14	22	16
Yuen Long	34	24	32	22	21	29	29	32	29	11	29	44	28
Tap Mun	3	1	3	2	2	2	2	2	2	1	2	3	2
Causeway Bay	131	144	129	123	105	129	135	144	147	77	113	165	128
Central	133	149	162	130	129	145	134	151	136	125	127	159	140
Mong Kok	129	134	134	127	132	145	140	133	130	73	99	131	125

Pollutant: Nitrogen Dioxide (Annual AQO = 80)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	68	55	63	60	53	37	25	41	46	50	69	77	54
Eastern	63	58	68	65	56	41	34	51	60	58	74	80	59
Kwai Chung	69	61	69	61	60	58	43	55	67	62	84	88	65
Kwun Tong	60	55	64	59	58	54	42	50	59	56	72	78	59
Sham Shui Po	76	62	73	74	72	58	43	60	71	67	86	92	69
Tsuen Wan	66	56	66	63	61	55	40	54	70	59	82	85	63
Sha Tin	46	36	46	39	36	34	25	36	45	39	60	62	42
Tai Po	52	45	48	45	39	32	33 *	31	44	46	65	61	46
Tung Chung	56	33	47	41	37	33	18	34	39	46	72	73	44
Yuen Long	61	45	56	52	50	46	33	46	54	49	73	79	54
Tap Mun	15	12	14	12	12	11	10	10	15	11	14	16	13
Causeway Bay	122	114	118	113	107	100	87	108	123	104	143	156	116
Central	119	109	128	120	117	101	79	106	115	145	161	164	122
Mong Kok	116	99	115	115	120	104	82	103	113	106	140	142	113

Pollutant: Carbon Monoxide

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Tsuen Wan	887	679	660	685	493	387	247	392	446	600	733	753	579
Tung Chung	1063	645	909	751	666	601	546	697	740	582	737	902	737
Yuen Long	985	694	949	930	815	689	581	720	729	890	1025	948	833
Tap Mun	961	692	282	561	670	493	544	690	473	658	763	705	622
Causeway Bay	1283	1125	1381	1553	1055	1062	825	1209	1427	1324	1258	1181	1220
Central	895	689	1091	1206	1283	957	908	865	998	1037	1162	1133	1021
Mong Kok	1301	1006	1084	879	894	743	436	780	932	880	1088	1279	942

Pollutant: Ozone

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	31	21	32	37	41	30	21	29	39	57	59	43	37
Eastern	34	28	38	42	41	28	13	32	48	67	72	53	42
Kwai Chung	30	18	28	36	32	18	12	20	24	47	44	30	28
Kwun Tong	35	22	35	41	42	23	12	23	21	45	53	45	33
Sham Shui Po	26	16	24	26	28	20	13	22	27	49	48	36	28
Tsuen Wan	28	17	25	32	31	22	14	25	27	52	46	36	30
Sha Tin	41	34	45	56	55	32	20	30	38	69	62	53	45
Tai Po	41	29	32	37	38	32	8 *	19	34	56	56	53	38
Tung Chung	35	36	43	50	47	38	29	38	44	61	60	46	44
Yuen Long	25	22	36	34	38	27	16	27	35	57	51	37	34
Tap Mun	63	52	65	74	79	51	34	49	60	92	103	82	67

- Notes:
1. All units are in microgram per cubic metre.
 2. Asterisked values are below their respective minimum data requirement of 66% for number of data within the period.
 3. Shaded monthly averages are below the minimum data requirements for number of data within a quarter.
 4. Shaded annual averages are above their respective AQO.

TABLE C4: 2010 MONTHLY AND ANNUAL AVERAGES OF PARTICULATE POLLUTANTS

Pollutant: Total Suspended Particulates (Annual AQO = 80)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	96	46	126	89	80	42	26	50	35	102	112	121	76
Kwai Chung	82	61	96	64	49	50	35	38	71	77	99	121	71
Kwun Tong	90	59	80	71	62	48	31	42	31	79	106	92	67
Sham Shui Po	92	51	131	85	79	48	32	46	40	76	117	122	76
Tsuen Wan	87	50	79	65	50	49	31	44	45	62	88	102	63
Sha Tin	55	45	208	42	41	24	26	43	41	73	93	106	67
Tai Po	72	52	110	61	43	28	23	33	64	73	92	112	64
Tung Chung	75	57	92	47	31	35	20	22	35	68	104	114	59
Yuen Long	120	50	87	57	57	50	29	55	41	101	118	167	78
Mong Kok	116	78	251	88	81	53	52	68	52	99	131	146	102

Pollutant: Respirable Suspended Particulates (Annual AQO = 55)

Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Central / Western	58	35	85	45	40	25	17	26	32	56	72	74	47
Eastern	53	30	87	42	37	19	15	24	29	49	67	64	43
Kwai Chung	55	34	71	35	35	34	24	27	33	53	68	70	45
Kwun Tong	54	34	88	44	40	26	20	28	38	57	71	66	47
Sham Shui Po	55	33	82	45	42	28	22	31	36	55	71	70	48
Tsuen Wan	54	33	76	40	36	28	21	28	34	54	68	67	45
Sha Tin	52	30	80	39	35	25	18	30	33	54	71	66	45
Tai Po	53	32	81	41	35	25	18	28	35	55	71	66	45
Tung Chung	58	30	70	35	31	25	15	26	33	57	76	75	45
Yuen Long	65	36	74	41	35	26	18	30	37	62	80	84	49
Tap Mun	50	26	79	35	31	18	15	22	30	54	70	64	41
Causeway Bay	74	50	100	64	59	42	37	54	61	75	87	86	66
Central	63	45	96	58	53	37	29	40	44	69	88	85	59
Mong Kok	62	41	95	54	51	35	28	38	43	62	79	75	55

Notes:

1. All units are in microgram per cubic metre.
2. Asterisked values are below their respective minimum data requirement of 66% for number of data within the period.
3. Shaded monthly averages are below the minimum data requirements for number of data within a quarter.
4. Shaded annual averages are above their respective AQO.

TABLE C5: 2010 HOURLY STATISTICS OF MAJOR AIR POLLUTANTS
Pollutant: Sulphur Dioxide

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8618	98.4	2	4	7	12	22	33	48	63	10	260	49
Eastern	8564	97.8	2	3	7	10	15	22	34	45	8	133	35
Kwai Chung	8610	98.3	4	6	9	25	61	77	96	117	21	211	94
Kwun Tong	8543	97.5	4	5	8	11	16	21	35	42	10	99	34
Sham Shui Po	8635	98.6	3	6	8	14	28	48	80	104	14	258	78
Tsuen Wan	8511	97.2	4	6	10	18	34	47	62	72	15	170	52
Sha Tin	8594	98.1	4	6	9	14	21	29	40	50	12	121	40
Tai Po	8056	92.0	3	4	6	9	14	18	24	31	8	68	33
Tung Chung	8566	97.8	5	6	9	14	23	30	47	61	12	113	59
Yuen Long	8464	96.6	3	5	8	14	21	28	42	54	11	154	54
Tap Mun	8477	96.8	5	6	8	12	16	20	26	30	10	64	38
Causeway Bay	8596	98.1	2	3	5	9	15	21	31	42	8	233	45
Central	8586	98.0	2	4	8	14	23	32	46	58	11	303	49
Mong Kok	8620	98.4	3	4	7	12	21	36	60	80	11	229	68

Pollutant: Nitrogen Oxides

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8595	98.1	25	42	69	110	173	225	308	397	89	859	371
Kwai Chung	8606	98.2	49	83	125	179	249	308	397	481	143	1040	495
Kwun Tong	8539	97.5	43	67	100	143	197	242	310	426	116	1008	417
Sham Shui Po	8631	98.5	45	77	114	152	201	255	370	505	127	1356	458
Tsuen Wan	8535	97.4	41	74	103	140	194	242	315	389	115	728	384
Sha Tin	8594	98.1	20	30	49	83	153	225	306	352	72	730	337
Tung Chung	8499	97.0	17	30	52	91	144	181	230	270	69	584	278
Yuen Long	8464	96.6	40	56	80	115	171	222	299	355	97	717	337
Tap Mun	8289	94.6	7	9	13	19	27	35	48	59	16	231	54
Causeway Bay	8534	97.4	125	188	274	399	543	650	787	896	312	1696	749
Central	8618	98.4	116	191	312	439	588	685	826	946	336	1673	755
Mong Kok	8616	98.4	129	205	305	381	459	525	626	746	305	1415	667

Pollutant: Nitric Oxide

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8591	98.1	1	4	10	26	59	88	135	188	23	424	164
Kwai Chung	8606	98.2	8	18	38	69	107	137	188	232	51	543	226
Kwun Tong	8539	97.5	5	13	26	49	79	103	142	211	38	532	208
Sham Shui Po	8631	98.5	4	14	27	45	73	108	171	236	38	726	206
Tsuen Wan	8535	97.4	5	12	24	44	71	98	140	186	34	353	158
Sha Tin	8594	98.1	2	3	7	20	54	91	134	161	20	395	137
Tung Chung	8499	97.0	3	4	8	18	42	61	87	104	16	284	91
Yuen Long	8463	96.6	5	9	18	34	62	90	129	157	28	366	128
Tap Mun	8447	96.4	1	1	1	2	3	5	8	11	2	83	11
Causeway Bay	8534	97.4	38	63	105	172	247	305	376	433	128	850	337
Central	8618	98.4	33	64	121	191	269	320	399	478	140	946	382
Mong Kok	8616	98.4	39	75	121	162	205	244	306	365	125	756	308

Pollutant: Nitrogen Dioxide

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8595	98.1	19	30	49	72	95	111	130	146	54	255	134
Eastern	8564	97.8	27	39	57	74	92	105	126	141	59	236	128
Kwai Chung	8606	98.2	32	44	59	78	105	127	157	179	65	280	159
Kwun Tong	8539	97.5	29	41	55	72	92	108	131	148	59	242	123
Sham Shui Po	8631	98.5	33	45	65	88	110	124	146	166	69	300	147
Tsuen Wan	8535	97.4	30	42	58	77	101	122	143	159	63	276	142
Sha Tin	8594	98.1	15	23	35	52	78	100	129	147	42	248	127
Tai Po	8056	92.0	19	29	41	58	79	94	111	123	46	174	101
Tung Chung	8499	97.0	10	21	36	59	88	108	134	156	44	255	149
Yuen Long	8463	96.6	27	35	48	66	89	109	135	151	54	228	160
Tap Mun	8289	94.6	5	7	11	15	22	28	39	46	13	104	42
Causeway Bay	8534	97.4	55	80	110	144	183	210	248	281	116	398	234
Central	8618	98.4	57	80	114	154	199	228	262	290	122	423	241
Mong Kok	8616	98.4	55	80	108	141	174	196	226	253	113	405	205

Pollutant: Carbon Monoxide

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 8 hour	
			10	25	50	75	90	95	98				99
Tsuen Wan	8537	97.5	250	370	560	750	930	1050	1186	1330	579	2320	2186
Tung Chung	8513	97.2	470	560	670	850	1100	1300	1450	1640	737	2910	2469
Yuen Long	8458	96.6	510	610	780	1000	1240	1400	1610	1780	833	2730	2318
Tap Mun	8477	96.8	360	470	600	770	920	1020	1205	1290	622	2310	2144
Causeway Bay	8317	94.9	580	800	1150	1490	1840	2180	2530	2880	1220	4710	3378
Central	8595	98.1	580	690	1030	1270	1490	1730	2070	2300	1021	4370	2961
Mong Kok	8619	98.4	460	690	920	1150	1380	1490	1730	1960	942	4030	3219

Pollutant: Ozone

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8515	97.2	6	13	28	53	78	96	114	131	37	286	108
Eastern	8564	97.8	10	20	35	59	80	94	110	125	42	252	109
Kwai Chung	8596	98.1	4	6	19	44	65	79	97	110	28	245	102
Kwun Tong	8510	97.1	5	10	26	52	73	85	98	106	33	143	110
Sham Shui Po	8583	98.0	4	8	20	41	64	79	98	114	28	252	89
Tsuen Wan	8507	97.1	5	9	21	43	66	82	100	113	30	240	93
Sha Tin	8513	97.2	4	11	33	71	101	118	138	151	45	277	132
Tai Po	8056	92.0	2	10	29	58	85	101	118	130	38	238	96
Tung Chung	8544	97.5	7	17	37	61	87	106	135	163	44	341	115
Yuen Long	8422	96.1	4	9	24	48	79	101	130	151	34	280	100
Tap Mun	8461	96.6	22	36	61	92	122	135	152	166	67	259	155

Pollutant: Respirable Suspended Particulates (Continuous monitoring)

Station	No. of hours	Data capture rate %	Percentiles							Arithmetic mean	Highest 1 hour	Highest 24 hour	
			10	25	50	75	90	95	98				99
Central / Western	8699	99.3	13	22	38	64	87	104	127	146	47	732 ^	636 ^
Eastern	8688	99.2	11	18	34	59	80	93	117	134	43	775 ^	691 ^
Kwai Chung	8600	98.2	16	25	37	58	80	95	113	132	45	628 ^	505 ^
Kwun Tong	8656	98.8	15	24	38	62	84	98	121	141	47	785 ^	681 ^
Sham Shui Po	8496	97.0	16	24	39	62	85	100	123	143	48	630 ^	569 ^
Tsuen Wan	8616	98.4	15	23	36	59	82	97	116	135	45	731 ^	533 ^
Sha Tin	8372	95.6	14	22	34	59	84	97	116	135	45	783 ^	651 ^
Tai Po	8638	98.6	14	22	35	60	83	97	119	135	45	732 ^	627 ^
Tung Chung	8498	97.0	12	18	33	61	89	108	136	167	45	640 ^	475 ^
Yuen Long	8378	95.6	15	22	39	67	95	115	143	165	49	602 ^	361 ^
Tap Mun	8560	97.7	11	17	31	55	81	93	110	125	41	715 ^	609 ^
Causeway Bay	8512	97.2	27	41	59	82	106	124	150	173	66	707 ^	613 ^
Central	8448	96.4	23	33	50	76	102	117	144	163	59	716 ^	628 ^
Mong Kok	8588	98.0	21	31	47	71	95	111	135	156	55	775 ^	656 ^

Notes:

1. All concentration units are in microgram per cubic metre.
2. Annual averages calculated from less than 8 representative months are not published.
3. The RSP readings marked with ^ in the table were recorded when Hong Kong was affected by a dust plume originated from northern part of China in March 2010.

TABLE C6: 2010 TOTAL WET AND DRY DEPOSITION

(a) WET DEPOSITION

Monitoring Station	Central / Western	Kwun Tong	Yuen Long	
WET DEPOSITION (TON/HA)	25289	24796	16297	
WEIGHTED MEAN pH (based on volume-weighted mean hydrogen ion concentrations ($[H^+]$))	4.50	4.53	4.53	
WEIGHTED MEAN pH (based on volume-weighted mean pH)	4.72	4.82	4.66	
NO. OF SAMPLES	100	115	72	
Filtrate (Kg/Ha)	NH_4^+	8.45	8.69	5.15
	NO_3^-	30.49	27.15	17.33
	$SO_4^{=}$	37.79	34.63	21.01
	Cl^-	17.20	21.59	5.27
	F-	0.72	0.66	0.43
	Na^+	9.68	12.33	3.46
	K^+	6.28	6.25	4.05
	Formate	5.08	5.19	3.88
	Acetate	4.83	4.44	3.33
	Ca^{++}	3.89	3.16	2.23
	Mg^{++}	1.24	1.50	0.45

* Note: The weighted mean pH is calculated from the pH values measured by the Government Laboratory.

(b) DRY DEPOSITION

Monitoring Station	Central / Western	Kwun Tong	Yuen Long	
NO. OF SAMPLES	26	26	18	
Filtrate (Kg/Ha)	NH_4^+	0.46	0.84	0.08
	NO_3^-	11.30	12.44	5.88
	$SO_4^{=}$	9.71	8.20	4.12
	Cl^-	12.42	9.74	2.47
	F-	0.108	0.106	0.080
	Na^+	7.44	6.07	1.55
	K^+	0.78	0.53	0.33
	Formate	0.20	0.22	0.12
	Acetate	0.17	0.17	0.12
	Ca^{++}	7.43	5.96	4.35
	Mg^{++}	1.06	0.86	0.32

TABLE C7: 2010 DIURNAL VARIATIONS OF AIR POLLUTANTS

Pollutant: Sulphur Dioxide

Station	Hr00	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23	
Central / Western	9	9	9	10	10	10	10	12	14	13	12	11	10	10	11	11	10	10	10	11	11	10	9	9	
Eastern	8	8	8	8	8	8	8	10	9	9	9	8	8	8	8	8	8	8	8	9	10	9	8	8	
Kwai Chung	21	20	19	20	18	18	18	18	19	20	22	22	23	23	24	25	24	25	24	25	24	23	22	21	20
Kwun Tong	9	10	9	11	10	9	10	10	10	10	10	10	9	9	10	10	9	10	9	9	9	9	9	9	
Sham Shui Po	14	15	14	17	15	15	14	14	14	14	14	13	12	12	13	13	13	13	13	14	14	14	14	14	
Tsuen Wan	13	13	12	14	12	12	12	13	16	17	17	18	18	18	18	18	18	18	16	15	16	16	15	14	
Sha Tin	11	11	11	12	11	10	11	11	12	12	12	12	11	11	11	12	12	13	13	13	13	12	12	11	
Tai Po	7	7	7	7	7	7	7	7	8	9	9	9	9	8	8	8	8	8	8	8	8	8	7	7	
Tung Chung	10	10	10	12	11	10	11	12	14	15	15	15	15	16	15	15	14	13	12	11	11	10	10	10	
Yuen Long	10	9	8	13	10	9	9	10	11	12	12	11	11	11	11	11	11	12	12	12	12	11	11	10	
Tap Mun	9	9	9	10	9	9	9	10	11	12	12	12	11	11	10	10	10	9	9	9	9	8	8	8	
Causeway Bay	7	7	7	7	7	7	7	9	10	10	9	9	8	8	8	8	7	7	7	7	7	7	7	7	
Central	10	9	9	11	9	9	10	13	15	15	14	12	11	11	12	11	11	12	12	12	12	10	10	10	
Mong Kok	11	12	11	11	11	10	11	12	12	12	11	11	11	11	11	12	11	11	11	11	11	11	11	11	

Pollutant: Nitrogen Oxides

Station	Hr00	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23
Central / Western	82	64	55	49	47	43	54	98	135	135	117	101	82	90	96	99	103	107	109	104	98	93	92	88
Kwai Chung	128	99	84	73	71	79	121	172	205	191	163	148	144	141	145	152	159	170	195	185	162	151	146	144
Kwun Tong	114	87	73	62	59	66	108	151	162	151	132	119	111	111	117	121	131	147	148	143	124	117	121	125
Sham Shui Po	124	95	82	74	69	72	111	152	171	159	137	126	117	119	127	133	143	151	161	158	147	142	140	137
Tsuen Wan	105	72	61	53	51	55	90	129	160	158	140	127	121	122	125	127	136	148	152	142	131	125	124	121
Sha Tin	87	73	64	55	53	55	75	98	97	76	63	52	45	45	47	51	60	72	85	94	96	96	98	96
Tung Chung	73	59	48	42	41	48	68	86	84	76	73	70	71	70	67	67	66	74	82	81	80	74	74	76
Yuen Long	107	91	81	66	65	66	97	130	122	99	88	77	74	77	80	85	96	107	119	121	118	116	117	116
Tap Mun	15	15	15	15	15	15	16	16	18	19	20	18	16	15	14	15	15	15	16	16	15	15	14	15
Causeway Bay	286	223	196	174	167	165	239	392	431	413	376	351	329	331	335	335	326	344	362	365	347	341	350	329
Central	289	212	182	153	153	146	209	351	503	496	433	390	356	358	365	372	388	427	456	428	385	358	343	333
Mong Kok	298	205	186	160	146	144	227	313	360	356	325	312	318	340	354	369	380	401	404	362	330	336	353	348

Pollutant: Nitric Oxide

Station	Hr00	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23
Central / Western	21	15	12	11	11	9	12	30	48	47	38	29	20	23	25	24	24	24	24	22	21	21	23	22
Kwai Chung	46	34	28	23	23	26	45	71	88	79	62	53	49	45	46	48	50	55	70	67	57	54	53	53
Kwun Tong	38	28	23	18	17	19	37	58	63	57	47	39	35	33	34	35	38	44	44	43	37	35	38	41
Sham Shui Po	38	28	23	21	19	20	34	53	63	57	45	38	33	32	34	35	38	40	44	45	41	41	41	42
Tsuen Wan	31	18	14	13	11	13	26	45	61	60	49	41	35	34	34	33	36	40	42	40	37	36	36	37
Sha Tin	28	22	18	15	14	15	23	34	33	23	17	13	10	9	10	10	11	13	19	24	26	27	30	30
Tung Chung	19	14	10	8	8	11	19	28	27	22	19	17	16	15	13	13	12	13	16	17	17	17	18	19
Yuen Long	35	28	25	19	18	19	34	50	44	31	25	20	18	18	18	19	21	24	29	32	33	34	37	38
Tap Mun	1	2	2	2	2	2	2	2	3	3	4	3	2	2	2	2	2	2	1	1	1	1	1	1
Causeway Bay	123	96	83	73	70	69	99	171	191	179	160	146	132	131	130	129	121	132	140	144	141	140	144	139
Central	123	84	69	58	57	55	83	155	234	225	189	164	143	143	144	146	153	173	188	178	164	152	146	143
Mong Kok	128	87	78	65	57	55	94	137	161	156	137	127	125	134	140	145	149	161	164	147	133	138	148	149

Pollutant: Nitrogen Dioxide

Station	Hr00	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23
Central / Western	50	41	36	31	30	30	35	52	61	62	59	56	51	55	59	62	66	71	73	70	66	61	58	54
Eastern	56	47	39	35	33	37	50	63	66	65	61	59	58	59	63	67	73	76	75	73	71	66	62	61
Kwai Chung	57	47	42	38	37	39	52	63	70	70	69	67	69	71	75	79	82	86	88	83	76	69	66	63
Kwun Tong	55	44	38	34	33	36	51	63	66	64	60	59	58	60	64	67	73	80	81	77	68	63	63	62
Sham Shui Po	66	51	46	42	40	42	59	71	75	73	69	67	67	70	75	79	85	91	93	90	84	80	77	73
Tsuen Wan	58	44	39	34	33	36	50	60	67	67	65	65	67	70	73	76	81	87	87	81	75	70	68	64
Sha Tin	45	39	35	32	31	32	39	45	46	42	37	33	30	31	32	36	43	52	56	58	56	54	52	49
Tai Po	47	41	35	31	30	33	42	52	52	45	39	35	34	35	37	42	49	59	66	66	60	57	55	52
Tung Chung	44	37	32	29	28	31	39	43	44	43	44	44	46	48	47	48	48	55	58	56	53	49	47	47
Yuen Long	54	48	43	38	37	38	45	54	55	51	49	47	47	50	52	56	64	70	74	72	67	63	61	58
Tap Mun	12	12	12	13	12	12	13	13	14	14	15	13	12	12	11	12	13	14	14	13	13	12	12	12
Causeway Bay	98	76	69	62	61	60	88	130	139	140	132	128	126	131	136	139	141	142	148	144	131	127	129	117
Central	100	83	76	64	66	63	82	115	146	153	144	140	138	140	144	149	155	162	168	156	134	125	120	114
Mong Kok	102	72	67	61	59	59	83	104	114	118	116	119	127	136	141	147	152	155	153	137	126	125	127	120

Pollutant: Carbon Monoxide

Station	Hr00	Hr01	Hr02	Hr03	Hr04	Hr05	Hr06	Hr07	Hr08	Hr09	Hr10	Hr11	Hr12	Hr13	Hr14	Hr15	Hr16	Hr17	Hr18	Hr19	Hr20	Hr21	Hr22	Hr23
Tsuen Wan	549	496	469	449	462	476	540	612	655	637	611	569	558	561	565	562	589	622	667	686	672	651	632	599
Tung Chung	719	713	706	712	704	717	722	745	753	747	748	742	753	755	752	749	746	746	752	754	751	741	736	730
Yuen Long	881	824	792	756	746	740	800	880	883	830	797	766	761	782	783	788	817	851	900	934	931	912	912	903
Tap Mun	592	588	588	589	588	598	613	625	628	633	633	640	638	639	641	639	638	645	647	647	642	635	616	594
Causeway Bay	1472	1555	1520	1443	1322	1286	1078	1029	1099	1111	1171	1182	1169	1175	1139	1142	1065	1062	1124	1195	1256	1250	1202	1278
Central	1100	1019	899	793	745	728	738	889	1023	1119	1168	1067	1013	1098	1056	1044	995	1035	1110	1132	1206	1236		