

**AIRBORNE SPECIES CONCENTRATIONS AS DERIVED FROM RESPIRABLE SUSPENDED PARTICULATES FOR 2010**

Station	RSP	As	Be	Cd	Ni	Pb	Cr	Al	Mn	Fe	Ca	Mg	V	Zn	Ba	Cu	Hg	Se	Na+ (note 4)	K+	Cl-	Br-	SO4=	NH4+	NO3-	TC
Central/Western	53	4.1	0.05	1.03	6.8	42	2.8	317	27	577	794	320	16.3	268	17	58	0.22	0.7	1631	395	1494	9	9302	2447	4798	8305
Kwun Tong	48	3.6	0.04	0.87	4.7	37	2.0	227	16	487	511	227	10.8	129	15	79	0.23	0.6	1428	346	888	10	8756	2568	3888	9525
Sham Sui Po	54	3.6	0.05	0.87	8.1	37	2.6	276	19	551	650	281	20.8	156	15	55	0.23	0.6	1622	370	1101	10	9413	2698	4479	10640
Kwai Chung	51	4.5	0.04	1.14	11.4	44	2.5	233	17	510	549	204	31.0	164	18	67	0.23	0.7	1325	394	730	10	9725	2991	3628	11543
Tsuen Wan	48	3.8	0.05	0.98	7.1	42	2.2	223	16	447	480	205	18.8	159	14	47	0.23	0.7	1209	355	704	10	9290	2870	3332	9968
Tung Chung	46	5.0	0.05	1.29	5.2	47	2.4	196	19	411	441	183	10.6	156	16	56	0.23	0.8	1304	455	665	10	9495	2947	3567	8809
Yuen Long	53	4.1	0.05	1.23	5.3	50	3.0	276	22	564	657	206	12.4	226	15	71	0.23	0.8	1181	426	608	10	9034	2906	4263	9815
Mongkok	69	4.5	0.05	1.13	6.5	42	3.7	557	26	1040	926	393	13.3	175	36	51	0.23	0.8	1401	400	1349	12	9552	2919	5120	15252
Average	53	4.2	0.05	1.07	6.9	43	2.7	288	20	573	626	253	16.8	179	18	60	0.23	0.7	1369	392	944	10	9321	2792	4136	10482

- Notes: 1. All figures are in nanogram per cubic metre (ng/m<sup>3</sup>) except RSP which is in microgram per cubic metre (µg/m<sup>3</sup>).
2. All values presented are annual arithmetic means.
3. The concentrations of all species are derived from chemical analysis of respirable suspended particulates samples collected by high-volume samplers.
4. Due to filter contamination, number of valid samples of Na<sup>+</sup> in 2010 was lower than normal.
5. The Airborne Species:
- |                |   |
|----------------|---|
| As - Arsenic   | Ba - Barium                                 |
| Be - Beryllium | Cu - Copper                                 |
| Cd - Cadmium   | Hg - Mercury                                |
| Ni - Nickel    | Se - Selenium                               |
| Pb - Lead      | Na <sup>+</sup> - Sodium Ion                |
| Cr - Chromium  | K <sup>+</sup> - Potassium Ion              |
| Al - Aluminium | Cl <sup>-</sup> - Chloride Ion              |
| Mn - Manganese | Br <sup>-</sup> - Bromide Ion               |
| Fe - Iron      | SO <sub>4</sub> <sup>=</sup> - Sulphate Ion |
| Ca - Calcium   | NH <sub>4</sub> <sup>+</sup> - Ammonium Ion |
| Mg - Magnesium | NO <sub>3</sub> <sup>-</sup> - Nitrate Ion  |
| V - Vanadium   | TC - Total Carbon                           |
| Zn - Zinc      |   |