

AIRBONE SPECIES CONCENTRATIONS AS DERIVED FROM RESPIRABLE SUSPENDED PARTICULATES FOR 2009

Station	RSP	As	Be	Cd	Ni	Pb	Cr (note 4)	Al	Mn	Fe	Ca	Mg	V	Zn	Ba	Cu	Hg	Se	Na+ (note 4)	K+	Cl-	Br-	SO4=	NH4+	NO3-	TC
Central/Western	52	3.6	0.04	1.0	6.0	41	1.9	254	18	438	618	275	13.8	165	14	39	0.22	0.76	2064	459	1150	13	10648	3085	4159	8504
Kwun Tong	50	3.2	0.04	0.8	4.0	36	2.0	192	14	466	485	243	9.7	142	15	54	0.22	0.64	1986	376	999	12	9953	2794	4293	8328
Sham Sui Po	54	3.6	0.04	1.0	5.9	41	2.0	203	16	460	540	233	15.3	150	15	41	0.22	0.70	1803	442	917	12	10608	3102	4420	10051
Tsuen Wan	50	3.4	0.04	1.2	6.0	39	1.6	164	13	359	406	202	14.9	150	13	48	0.21	0.58	1749	379	703	13	10356	3029	4109	9234
Tung Chung	46	3.5	0.04	0.9	4.9	37	1.8	193	14	352	382	190	10.1	142	13	104	0.21	0.60	1928	400	561	11	10039	2662	3768	8279
Yuen Long	55	4.0	0.04	1.0	5.6	44	2.6	206	17	477	515	182	11.5	167	16	84	0.22	0.67	1658	467	712	11	10378	3302	5317	10474
Mongkok	66	4.0	0.04	1.1	6.2	44	2.8	240	19	740	622	245	13.2	173	40	46	0.21	0.71	1861	515	996	12	10628	3382	4908	16185
Average	53	3.6	0.04	1.0	5.4	40	2.1	200	16	476	492	216	12.4	154	19	63	0.22	0.65	1831	430	815	12	10327	3045	4469	10425

- Notes: 1. All figures are in nanogram per cubic metre (ng/m³) except RSP which is in microgram per cubic metre (µg/m³).
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 Cr and Na⁺ in 2009 were lower than normal.
5. The Airborne Species:
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|----------------|---|
| As - Arsenic | Ba - Barium |
| Be - Beryllium | Cu - Copper |
| Cd - Cadmium | Hg - Mercury |
| Ni - Nickel | Se - Selenium |
| Pb - Lead | Na ⁺ - Sodium Ion |
| Cr - Chromium | K ⁺ - Potassium Ion |
| Al - Aluminium | Cl ⁻ - Chloride Ion |
| Mn - Manganese | Br ⁻ - Bromide Ion |
| Fe - Iron | SO ₄ ⁼ - Sulphate Ion |
| Ca - Calcium | NH ₄ ⁺ - Ammonium Ion |
| Mg - Magnesium | NO ₃ ⁻ - Nitrate Ion |
| V - Vanadium | TC - Total Carbon |
| Zn - Zinc | |