

Table S1. Summary of heavy metal and Metalloids concentrations in different sample types

Sample Source	Heavy Metal	MAX($\times 10^{-6}$)	MIN($\times 10^{-6}$)	MID($\times 10^{-6}$)	Standard($\times 10^{-6}$)
Atmospheric deposition	Hg	86.22	0.00	0.08	0.05 $\mu\text{g}/\text{m}^3$
	As	53.75	0.00	0.12	0.006 $\mu\text{g}/\text{m}^3$
	Cd	11.39	0.00	0.44	0.005 $\mu\text{g}/\text{m}^3$
	Pb	612.96	0.00	0.51	0.5 $\mu\text{g}/\text{m}^3$
	Cr	1704.03	0.00	0.24	0.000025 $\mu\text{g}/\text{m}^3$
	Zn	3140.34	0.00	3.63	
	Cu	776.99	0.00	0.32	
	Ni	804.00	0.00	0.00	
Irrigation water & sediment	Hg	0.44	0.00	0.00	0.001
	As	764.01	0.00	0.00	≤ 0.05 or ≤ 0.1
	Cd	9.34	0.00	0.14	0.01
	Pb	243.00	0.00	0.00	0.2
	Cr	1818.00	0.00	0.01	0.1
	Zn	2780.00	0.00	0.02	2
	Cu	264.00	0.00	0.00	≤ 0.5 or ≤ 1.0
	Ni	51.57	0.07	1.82	0.2
Agricultural inputs	Hg	46.45	0	0.68	≤ 2 or ≤ 5
	As	50.39	0.01	1.68	≤ 15 or ≤ 50
	Cd	1.85	0.00	0.29	≤ 3 or ≤ 10
	Pb	88.9	0.11	1.96	≤ 50 or ≤ 200
	Cr	238.00	0.54	9.12	≤ 150 or ≤ 500
	Zn	38854.00	0.16	15.58	
	Cu	4770.00	0.03	1.13	
	Ni	43.12	0.21	3.82	≤ 600
Livestock and poultry manure	Hg	0.05	0.01	0.01	
	As	13.86	0.04	0.46	

Sample Source	Heavy Metal	MAX($\times 10^{-6}$)	MIN($\times 10^{-6}$)	MID($\times 10^{-6}$)	Standard($\times 10^{-6}$)
	Cd	1.89	0.015697829	0.13	
	Pb	53.59	0.064	1.32	
	Cr	83.29	0.34	5.67	
	Zn	2603.19	0.38	57.15	
	Cu	435.54	0.30	13.84	
	Ni	533.00	0.01	1.07	
Crop removal	Hg	10.47	0.00	0.03	
	As	34.69	0.01	0.22	
	Cd	3529.00	0.00	0.12	
	Pb	398.00	0.00	0.76	
	Cr	1909.00	0.02	3.93	
	Zn	2785.00	0.00	23.10	
	Cu	4883.00	0.01	5.66	
	Ni	0.01	0.00	0.00	
Surface runoff	Hg	0.00	0.00	0.00	0.001
	As	0.01	0.00	0.00	0.01
	Cd	0.01	0.00	0.00	0.005
	Pb	0.01	0.00	0.00	0.01
	Cr	5.35	0.00	0.01	0.50
	Zn	0.03	0.00	0.00	1.00
	Cu	0.01	0.00	0.00	1.00
	Ni	0.0331	6.50944E-05	0.00273	0.02
Groundwater leachate	Hg	0.00	0.00	0.00	0.001
	As	0.02	0.00	0.00	0.01
	Cd	0.00	0.00	0.00	0.005
	Pb	0.03	0.00	0.00	0.01
	Cr	0.02	0.00	0.00	0.50

Sample Source	Heavy Metal	MAX($\times 10^{-6}$)	MIN($\times 10^{-6}$)	MID($\times 10^{-6}$)	Standard($\times 10^{-6}$)
	Zn	0.14	0.00	0.01	1.00
	Cu	0.34	0.00	0.01	1.00
	Ni	129.50	0.55	30.61	0.02
Soil and agricultural products	Hg	0.15	0.01	0.06	≤ 1 or ≤ 3.4
	As	33.80	0.04	1.70	≤ 20 or ≤ 25
	Cd	11.98	0.01	0.21	≤ 0.6 or ≤ 0.8
	Pb	410.00	0.28	7.54	≤ 170 or ≤ 240
	Cr	216.00	1.04	59.43	≤ 250 or ≤ 350
	Zn	1691.00	9.91	91.52	300
	Cu	383.00	1.34	22.79	≤ 100 or ≤ 200
	Ni	59.80	6.99	27.95	190
Rock and mineral samples	Hg	0.00	0.00	0.00	≤ 1 or ≤ 3.4
	As	3.03	0.15	0.60	≤ 20 or ≤ 25
	Cd	0.00	0.00	0.00	≤ 0.6 or ≤ 0.8
	Pb	2.60	0.00	0.00	≤ 170 or ≤ 240
	Cr	150.00	13.30	48.75	≤ 250 or ≤ 350
	Zn	109.00	61.00	64.60	
	Cu	55.40	2.72	28.85	≤ 100 or ≤ 200
	Ni	804.00	0.00	0.00	190

MAX = maximum, MIN = minimum, MID = median. For the Standard column, some values represent ranges or air quality standards, with units indicated accordingly. The standard units for atmospheric deposition are all in $\mu\text{g}/\text{m}^3$, while those for all other sample types are $\times 10^{-6}$. Blank cells indicate that no relevant standard is available or the standard is not applicable.