

METAL	Material	Population 1	Population 2	Population 3	Population 4	Population 5	Population 6	Population 7	Population 8	Population 9	Population 10	Population 11	Population 12	Population 13	Population 14	Mean	Kruskal-Wallis test
Al	SOIL	496.93 ± 23.92	55.74 ± 1.30	44.22 ± 2.06	163.89 ± 4.36	47.17 ± 1.19	85.45 ± 1.17	62.82 ± 1.70	366.00 ± 1.63	31.88 ± 1.90	102.12 ± 4.27	4.,04 ± 1.50	69.94 ± 4.42	101.75 ± 7.84	75.60 ± 0.99	101.15 ± 31.85	H _(13, 42) = 40.39 p = 0.0001
	ROOT	2977.21 ± 16.81	2738.03 ± 0.00	617.83 ± 13.31	886.58 ± 0.00	1782.50 ± 164.55	1145.67 ± 58.35	733.99 ± 201.24	1630.64 ± 202.73	860.56 ± 5.11	2455.57 ± 965.88	705.01 ± 6.42	2438.13 ± 100.92	2922.74 ± 9.60	370.62 ± 3.49	1590.36 ± 253.53	H _(13, 42) = 40.70 p = 0.0001
	STEM	475.50 ± 2.18	155.19 ± 7.61	112.15 ± 2.33	273.60 ± 9.03	188.19 ± 0.70	508.48 ± 9.83	79.47 ± 1.94	478.68 ± 27.42	341.62 ± 15.10	86.38 ± 3.17	56.82 ± 2.15	1219.99 ± 61.01	333.33 ± 2.84	49.62 ± 4.35	311.36 ± 82.51	H _(13, 42) = 40.51 p = 0.0001
	LEAF	165.47 ± 0.91	41.24 ± 2.32	28.01 ± 0.86	136.39 ± 12.62	9.02 ± 0.57	36.51 ± 1.77	171.87 ± 3.38	25.04 ± 1.16	55.61 ± 2.60	82.89 ± 2.50	6.80 ± 0.51	24.46 ± 3.30	49.45 ± 2.24	32.10 ± 1.24	61.78 ± 14.96	H _(13, 42) = 40.62 p = 0.0001
V	SOIL	0.82 ± 0.02	0.60 ± 0.06	0.65 ± 0.02	1.06 ± 0.02	0.62 ± 0.03	0.51 ± 0.02	0.99 ± 0.01	0.66 ± 0.03	2.60 ± 0.10	1.74 ± 0.06	9.81 ± 0.19	1.62 ± 0.19	2.70 ± 0.04	2.22 ± 0.12	1.90 ± 0.64	H _(13, 42) = 39.77 p = 0.0002
	ROOT	2.97 ± 0.02	4.13 ± 0.00	1.13 ± 0.03	1.50 ± 0.00	3.50 ± 0.22	2.37 ± 0.08	1.74 ± 0.34	2.66 ± 0.25	2.83 ± 0.04	130.14 ± 64.70	2.14 ± 0.09	7.17 ± 0.33	8.90 ± 0.04	2.34 ± 0.07	12.39 ± 9.08	H _(13, 42) = 39.95 p = 0.0001
	STEM	0.30 ± 0.03	0.51 ± 0.02	0.47 ± 0.02	0.75 ± 0.02	0.76 ± 0.04	1.05 ± 0.01	0.50 ± 0.02	1.14 ± 0.05	0.83 ± 0.01	0.66 ± 0.02	0.33 ± 0.02	4.37 ± 0.13	1.43 ± 0.08	0.48 ± 0.01	0.97 ± 0.28	H _(13, 42) = 39.92 p = 0.0001
	LEAF	0.09 ± 0.00	0.08 ± 0.00	0.04 ± 0.01	0.41 ± 0.02	0.15 ± 0.01	0.07 ± 0.00	0.40 ± 0.02	0.06 ± 0.01	0.11 ± 0.01	0.14 ± 0.01	0.13 ± 0.00	0.07 ± 0.01	0.12 ± 0.00	0.06 ± 0.00	0.14 ± 0.03	H _(13, 42) = 39.95 p = 0.0001
Cr	SOIL	2.07 ± 0.12	1.26 ± 0.08	2.70 ± 0.91	1.42 ± 0.03	1.27 ± 0.02	1.50 ± 0.27	1.44 ± 0.05	2.05 ± 0.46	1.59 ± 0.12	1.51 ± 0.05	1.92 ± 0.21	1.61 ± 0.09	1.70 ± 0.11	2.14 ± 0.27	1.73 ± 0.11	H _(13, 42) = 25.69 p = 0.0187
	ROOT	2.09 ± 0.13	2.26 ± 0.00	0.65 ± 0.01	0.94 ± 0.00	1.81 ± 0.11	1.21 ± 0.03	0.90 ± 0.16	1.71 ± 0.11	1.43 ± 0.02	37.81 ± 18.58	1.10 ± 0.05	2.59 ± 0.16	3.20 ± 0.02	0.91 ± 0.03	4.19 ± 2.59	H _(13, 42) = 40.54 p = 0.0001
	STEM	0.43 ± 0.00	0.58 ± 0.02	0.55 ± 0.02	0.87 ± 0.01	0.55 ± 0.00	0.74 ± 0.02	0.48 ± 0.03	0.84 ± 0.00	0.63 ± 0.01	0.52 ± 0.02	0.54 ± 0.00	1.76 ± 0.03	0.66 ± 0.02	0.33 ± 0.00	0.68 ± 0.09	H _(13, 42) = 39.39 p = 0.0002
	LEAF	0.17 ± 0.00	0.09 ± 0.00	0.07 ± 0.00	0.25 ± 0.01	0.22 ± 0.02	0.10 ± 0.01	0.32 ± 0.00	0.09 ± 0.01	0.11 ± 0.01	0.17 ± 0.01	0.17 ± 0.01	0.10 ± 0.01	0.11 ± 0.00	0.07 ± 0.00	0.15 ± 0.02	H _(13, 42) = 39.47 p = 0.0002
Mn	SOIL	549.92 ± 18.77	354.65 ± 2.02	53.02 ± 0.47	813.04 ± 11.53	252.00 ± 1.83	2542.58 ± 144.78	2858.11 ± 2.96	614.50 ± 1.30	240.14 ± 7.30	2595.18 ± 1.92	7.98 ± 0.07	39.02 ± 1.59	52.81 ± 1.55	207.99 ± 2.41	798.64 ± 278.12	H _(13, 42) = 40.59 p = 0.0001
	ROOT	42.60 ± 0.89	90.10 ± 0.00	16.80 ± 0.44	60.99 ± 0.00	94.97 ± 4.85	208.33 ± 7.44	134.31 ± 42.50	48.91 ± 1.54	19.96 ± 0.58	235.42 ± 88.66	24.08 ± 1.21	47.84 ± 2.60	63.30 ± 0.40	13.16 ± 0.38	78.63 ± 18.62	H _(13, 42) = 40.39 p = 0.0001
	STEM	7.28 ± 0.08	17.85 ± 0.85	9.54 ± 0.23	36.82 ± 0.92	25.00 ± 0.72	53.47 ± 1.81	46.20 ± 1.81	29.47 ± 1.04	63.92 ± 2.82	182.56 ± 8.93	11.19 ± 0.28	108.04 ± 3.88	37.92 ± 1.61	11.51 ± 0.24	45.77 ± 12.79	H _(13, 42) = 40.65 p = 0.0001
	LEAF	35.04 ± 0.21	26.52 ± 0.76	6.25 ± 0.03	114.57 ± 4.75	61.65 ± 2.18	9.08 ± 0.14	78.72 ± 0.67	6.00 ± 0.13	22.76 ± 0.21	11.38 ± 0.06	14.60 ± 0.05	5.55 ± 0.19	10.36 ± 0.24	10.80 ± 0.04	29.52 ± 8.81	H _(13, 42) = 40.81 p = 0.0001
Fe	SOIL	431.49 ± 37.90	31.08 ± 2.66	28.02 ± 2.78	189.59 ± 11.79	91.34 ± 6.46	24.33 ± 1.35	252.61 ± 14.85	20.55 ± 1.64	11.58 ± 1.28	116.09 ± 4.54	49.51 ± 2.01	156.03 ± 19.10	50.91 ± 4.75	163.69 ± 15.98	115.49 ± 31.46	H _(13, 42) = 40.22 p = 0.0001
	ROOT	3376.74 ± 61.82	2002.54 ± 0.00	391.64 ± 9.20	656.12 ± 0.00	1481.96 ± 88.27	1311.25 ± 48.20	1037.06 ± 166.38	1203.47 ± 66.45	691.42 ± 11.64	1534.04 ± 337.81	1323.02 ± 68.19	3465.32 ± 170.30	2785.17 ± 13.84	480.25 ± 21.12	1552.86 ± 269.87	H _(13, 42) = 40.10 p = 0.0001
	STEM	286.55 ± 9.09	178.55 ± 12.02	126.92 ± 4.41	200.41 ± 7.53	220.91 ± 9.52	404.95 ± 14.06	170.12 ± 6.68	390.54 ± 16.11	297.14 ± 11.81	202.23 ± 12.08	154.23 ± 3.40	1221.48 ± 74.32	315.13 ± 4.72	33.49 ± 0.77	300.19 ± 75.90	H _(13, 42) = 40.08 p = 0.0001
	LEAF	63.31 ± 0.48	28.68 ± 3.23	22.95 ± 9.85	192.16 ± 4.57	57.13 ± 2.72	23.99 ± 0.99	132.56 ± 8.42	18.59 ± 0.74	34.55 ± 0.78	43.92 ± 1.40	28.95 ± 2.37	56.20 ± 4.66	30.32 ± 7.04	27.19 ± 2.76	54.32 ± 13.16	H _(13, 42) = 37.71 p = 0.0003
Co	SOIL	12.74 ± 0.35	4.55 ± 0.02	0.33 ± 0.02	9.22 ± 0.20	15.57 ± 0.04	11.05 ± 0.24	15.85 ± 0.09	3.79 ± 0.01	0.82 ± 0.04	23.26 ± 0.22	0.64 ± 0.02	1.93 ± 0.03	2.60 ± 0.16	28.53 ± 0.54	9.35 ± 2.39	H _(13, 42) = 40.81 p = 0.0001
	ROOT	3.72 ± 0.10	3.60 ± 0.00	0.31 ± 0.01	1.91 ± 0.00	3.45 ± 0.17	6.23 ± 0.23	4.28 ± 1.12	1.45 ± 0.04	0.74 ± 0.02	15.67 ± 6.33	1.83 ± 0.08	1.71 ± 0.08	3.82 ± 0.03	0.55 ± 0.01	3.52 ± 1.04	H _(13, 42) = 40.23 p = 0.0001
	STEM	0.80 ± 0.01	0.45 ± 0.02	0.23 ± 0.01	0.73 ± 0.00	1.21 ± 0.03	1.72 ± 0.07	1.59 ± 0.08	0.61 ± 0.02	0.80 ± 0.03	1.56 ± 0.09	0.52 ± 0.01	1.88 ± 0.12	1.18 ± 0.06	0.16 ± 0.00	0.96 ± 0.15	H _(13, 42) = 40.06 p = 0.0001
	LEAF	0.36 ± 0.00	0.12 ± 0.00	0.07 ± 0.00	1.38 ± 0.05	0.24 ± 0.01	0.15 ± 0.00	0.48 ± 0.01	0.08 ± 0.00	0.15 ± 0.00	0.10 ± 0.00	0.06 ± 0.00	0.13 ± 0.00	0.11 ± 0.00	0.07 ± 0.00	0.25 ± 0.09	H _(13, 42) = 40.75 p = 0.0001
Ni	SOIL	7.45 ± 0.10	7.11 ± 0.04	5.70 ± 0.18	4.66 ± 0.15	8.87 ± 0.21	17.87 ± 0.60	31.77 ± 0.07	5.95 ± 0.27	4.35 ± 0.20	6.79 ± 0.14	5.16 ± 0.18	11.55 ± 0.19	6.74 ± 0.62	14.98 ± 0.33	9.92 ± 1.99	H _(13, 42) = 39.69 p=0.0002
	ROOT	2.17 ± 0.08	4.50 ± 0.00	2.34 ± 0.16	2.09 ± 0.00	5.31 ± 0.32	2.09 ± 0.08	1.54 ± 0.25	3.46 ± 0.16	1.22 ± 0.11	21.65 ± 10.24	1.46 ± 0.14	10.07 ± 0.15	4.89 ± 0.10	2.45 ± 0.14	4.66 ± 1.45	H _(13, 42) = 39.61 p = 0.0002
	STEM	0.45 ± 0.04	4.44 ± 1.23	0.74 ± 0.06	3.69 ± 0.25	4.21 ± 2.93	2.50 ± 0.57	1.10 ± 0.24	0.77 ± 0.03	0.62 ± 0.03	1.12 ± 0.33	0.43 ± 0.07	1.76 ± 0.08	1.87 ± 0.18	0.55 ± 0.09	1.73 ± 0.38	H _(13, 42) = 35.57 p = 0.0007
	LEAF	0.17 ± 0.02	0.35 ± 0.04	0.40 ± 0.00	0.70 ± 0.03	0.36 ± 0.04	0.24 ± 0.04	0.37 ± 0.09	0.43 ± 0.02	0.46 ± 0.03	0.25 ± 0.02	0.29 ± 0.07	0.16 ± 0.01	0.14 ± 0.02	0.17 ± 0.01	0.32 ± 0.04	H _(13, 42) = 38.53 p = 0.0002
Cu	SOIL	224.69 ± 6.98	21.69 ± 1.49	4.78 ± 0.89	292.06 ± 7.93	66.86 ± 1.13	91.02 ± 0.64	355.19 ± 4.78	286.77 ± 1.38	76.00 ± 1.15	234.64 ± 2.67	201.60 ± 6.22	194.72 ± 4.41	37.80 ± 0.45	237.21 ± 9.82	166.07 ± 30.42	H _(13, 42) = 40.35 p = 0.0001
	ROOT	80.77 ± 2.47	40.60 ± 0.00	9.23 ± 0.13	48.92 ± 0.00	82.81 ± 4.25	62.65 ± 2.32	52.81 ± 6.27	47.88 ± 1.16	28.66 ± 1.32	112.00 ± 32.77	37.26 ± 1.92	78.95 ± 4.07	89.82 ± 0.97	73.29 ± 2.06	60.40 ± 7.36	H _(13, 42) = 40.03 p = 0.0001
	STEM	32.08 ± 0.71	28.20 ± 1.22	9.19 ± 0.07	31.03 ± 1.77	29.77 ± 0.43	34.23 ± 3.01	32.91 ± 1.26	27.06 ± 0.58	37.56 ± 1.39	26.34 ± 1.69	14.79 ± 0.29	50.57 ± 0.74	28.34 ± 1.46	27.71 ± 0.72	29.27 ± 2.57	H _(13, 42) = 35.13 p = 0.0008
	LEAF	13.78 ± 0.12	8.78 ± 0.19	3.56 ± 0.03	16.33 ± 1.13	7.19 ± 0.14	6.76 ± 0.16	12.45 ± 0.39	4.25 ± 0.33	4.92 ± 0.29	5.88 ± 0.10	11.09 ± 0.73	3.59 ± 0.05	5.69 ± 0.11	5.14 ± 0.18	7.81 ± 1.09	H _(13, 42) = 40.63 p = 0.0001
Zn	SOIL	483.54 ± 21.60	137.87 ± 2.60	38.40 ± 1.10	287.69 ± 10.99	402.63 ± 6.20	2076.38 ± 15.63	3138.69 ± 13.01	118.93 ± 13.97	72.10 ± 1.84	237.30 ± 14.33	44.78 ± 1.75	157.73 ± 32.85	390.62 ± 19.75	4696.06 ± 66.85	877.34 ± 379.37	H _(13, 42) = 40.37 p = 0.0001
	ROOT	58.64 ± 1.98	48.83 ± 0.00	29.35 ± 1.60	49.44 ± 0.00	69.23 ± 2.52	50.35 ± 1.72	73.60 ± 10.44	57.79 ± 0.77	40.32 ± 1.86	91.21 ± 3.16	50.57 ± 1.44	60.25 ± 2.36	96.35 ± 1.43	36.45 ± 0.15	58.03 ± 5.15	H _(13, 42) = 39.66 p = 0.0002
	STEM	61.86 ± 0.50	34.68 ± 0.40	34.09 ± 0.86	50.02 ± 0.27	42.83 ± 0.43	40.92 ± 1.02	44.42 ± 1.51	42.53 ± 1.05	70.02 ± 0.87	52.93 ± 3.00	44.22 ± 0.50	59.95 ± 0.85	71.46 ± 0.96	50.26 ± 0.54	50.01 ± 3.19	H _(13, 42) = 39.47 p = 0.0002
	LEAF	26.27 ± 0.26	16.52 ± 2.04	14.67 ± 0.48	45.90 ± 0.77	29.81 ± 1.55	23.92 ± 3.30	46.86 ± 0.38	18.03 ± 0.67	19.15 ± 1.30	18.76 ± 2.69	26.40 ± 0.89	17.54 ± 1.67	18.57 ± 0.75	19.00 ± 0.22	24.39 ± 2.74	H _(13, 42) = 37.73 p = 0.0005
As	SOIL	7.57 ± 0.23	13.70 ± 0.59	1.77 ± 0.14	10.94 ± 0.65	3.43 ± 0.06	6.89 ± 0.67	13.59 ± 0.24	6.16 ± 0.13	7.78 ± 0.03	24.83 ± 0.63	6.34 ± 0.24	7.10 ± 0.63	20.97 ± 1.20	54.22 ± 0.49	13.24 ± 3.59	H _(13, 42) = 40.09 p = 0.0001
	ROOT	16.63 ± 1.42	14.05 ± 0.00	1.52 ± 0.02	4.37 ± 0.00	6.37 ± 0.26	8.31 ± 0.34	8.60 ± 0.27	3.85 ± 0.10	2.26 ± 0.13	37.09 ± 13.90	11.21 ± 0.60	13.41 ± 0.64	18.79 ± 0.29	2.46 ± 0.04	10.64 ± 2.52	H _(13, 42) = 40.41 p = 0.0001
	STEM	1.46 ± 0.01	1.89 ± 0.02	0.67 ± 0.01	1.35 ± 0.05	1.25 ± 0.03	2.01 ± 0.10	1.59 ± 0.08	1.71 ± 0.00	1.45 ± 0.02	1.59 ± 0.07	1.23 ± 0.02	4.85 ± 0.02	2.27 ± 0.08	0.57 ± 0.01	1.71 ± 0.27	H _(13, 42) = 39.30 p = 0.0002
	LEAF	0.60 ± 0.02	0.37 ± 0.01	0.15 ± 0.00	1.32 ± 0.04	0.28 ± 0.04	0.13 ± 0.00	0.60 ± 0.03	0.13 ± 0.01	0.28 ± 0.01	0.33 ± 0.02	0.07 ± 0.02	0.30 ± 0.02	0.16 ± 0.01	0.11 ± 0.01	0.34 ± 0.09	H _(13, 42) = 40.39 p = 0.0001
Cd	SOIL	1.33 ± 0.06	0.38 ± 0.04	0.40 ± 0.01	0.68 ± 0.03	1.34 ± 0.06	1.20 ± 0.04	0.45 ± 0.04	0.99 ± 0.05	0.40 ± 0.04	0.59 ± 0.04	0.30 ± 0.02	0.40 ± 0.03	0.48 ± 0.02	5.77 ± 0.07	1.05 ± 0.38	H _(13, 42) = 38.15 p = 0.0003
	ROOT	0.23 ± 0.01	0.12 ± 0.00	0.12 ± 0.00	0.16 ± 0.00	0.11 ± 0.00	0.15 ± 0.00	0.14 ± 0.01	0.39 ± 0.01	0.33 ± 0.01	17.49 ± 8.69	0.12 ± 0.01	0.14 ± 0.01	0.25 ± 0.00	0.23 ± 0.01	1.43 ± 1.24	H _(13, 42)