

Supplementary material

Table S1. Parameter estimates, significance, R^2 , and equation of linear and quadratic response of examined biometric parameters and mineral concentration to nutrient solution zinc concentration in arugula, red cabbage, and red mustard.¹

Predicted parameter	Species	Intercept		Slope		Quadratic coefficient		R^2
		Estimate	<i>p</i> value	Estimate	<i>p</i> value	Estimate	<i>p</i> value	
Shoot population density (shoot m ⁻²)	Arugula	25826	0.0001	-49.95	0.84	2.34788	0.84	0.01
	Red cabbage	18833	0.0001	48.08	0.90	-0.97939	0.96	0.01
	Red mustard	22814	0.0001	-225.75	0.51	13.41697	0.40	0.11
Fresh yield (g m ⁻²)	Arugula	1353	0.0001	71.76	0.004	-3.21958	0.005	0.63
	Red cabbage	1923	0.0001	-46.77	0.29	2.07073	0.31	0.12
	Red mustard	1836	0.0001	15.30	22.15	-1.01797	0.35	0.17
Shoot fresh weight (mg shoot ⁻¹)	Arugula	46.1	0.0001	2.99	0.001	-0.12905	0.002	0.70
	Red cabbage	112.9	0.0001	-2.36	0.27	0.09768	0.33	0.14
	Red mustard	101.8	0.0001	-1.36	0.59	0.01911	0.87	0.19
Dry matter (g 100 g ⁻¹ FW)	Arugula	6.7	0.0001	-0.14	0.03	0.00653	0.03	0.42
	Red cabbage	6.6	0.0001	0.08	0.43	-0.00267	0.54	0.10
	Red mustard	5.8	0.0001	0.00	0.89	0.00060	0.70	0.09
Calcium (mg 100 g ⁻¹ FW)	Arugula	109.3	0.0001	-0.74	0.30	0.08303	0.03	0.80
	Red cabbage	157.1	0.0001	3.04	0.13	-0.09697	0.28	0.38
	Red mustard	103.3	0.0001	-0.04	0.98	0.04697	0.45	0.45
Potassium (mg 100 g ⁻¹ FW)	Arugula	362.2	0.0001	1.36	0.579			0.58
	Red cabbage	344.4	0.0001	-12.47	0.03	0.50424	0.06	0.43
	Red mustard	363.3	0.0001	1.06	0.60			0.08
Magnesium (mg 100 g ⁻¹ FW)	Arugula	36.8	0.0001	-0.66	0.022	0.04364	0.003	0.77
	Red cabbage	56.7	0.0001	1.37	0.08	-0.04909	0.16	0.38
	Red mustard	36.9	0.0001	-0.17	0.74	0.02273	0.37	0.37
Phosphorus (mg 100 g ⁻¹ FW)	Arugula	65.0	0.0001	-0.63	0.31	0.04303	0.14	0.37
	Red cabbage	68.1	0.0001	0.87	0.22	-0.04909	0.14	0.26
	Red mustard	61.4	0.0001	-0.84	0.05	0.05545	0.01	0.69
Copper (mg 100 g ⁻¹ FW)	Arugula	0.06	0.0002	0.00	0.78	0.00008	0.51	0.20
	Red cabbage	0.05	0.0001	0.00	0.127	0.00013	0.07	0.38
	Red mustard	0.05	0.0001	0.00	0.23	0.00013	0.04	0.70
Iron (mg 100 g ⁻¹ FW)	Arugula	0.54	0.0001	-0.02	0.12	0.00056	0.37	0.52
	Red cabbage	0.57	0.0001	0.00	1.00	-0.00024	0.72	0.17
	Red mustard	0.41	0.0001	-0.01	0.0004			0.74
Zinc (mg 100 g ⁻¹ FW)	Arugula	0.48	0.31	-0.16	0.19	0.02160	0.003	0.92
	Red cabbage	0.49	0.11	-0.24	0.008	0.03060	0.0001	0.98
	Red mustard	0.35	0.15	-0.16	0.02	0.02416	0.0001	0.98

¹ Linear or quadratic response were selected based on R^2 value and parameter significance. When linear response showed a better fit, the quadratic coefficient was not reported.

Table S2. Parameter estimates, significance, R^2 and equation of linear and quadratic response of examined biometric parameters and mineral concentration to nutrient solution iron (Fe) concentration in arugula, red cabbage, and red mustard.¹

Predicted parameter	Species	Intercept		Slope		Quadratic coefficient		R ²
		Estimate	p value	Estimate	p value	Estimate	p value	
Shoot population density (shoot m ⁻²)	Arugula	29723	0.0001	-41.01	0.68	-9.13067	0.003	0.97
	Red cabbage	17383	0.0001	166.69	0.29	-11.36140	0.01	0.88
	Red mustard	22516	0.0001	164.30	0.35	-3.94000	0.003	0.93
Fresh yield (g m ⁻²)	Arugula	2007	0.0001	16.40	0.412	-1.32601	0.02	0.87
	Red cabbage	2142	0.0001	-25.57	0.04	-0.44951	0.10	0.96
	Red mustard	1835	0.0001	49.29	0.001	-2.23812	0.0001	0.97
Shoot fresh weight (mg shoot ⁻¹)	Arugula	81.4	0.0001	-0.04	0.954	-0.02195	0.22	0.73
	Red cabbage	141.7	0.0001	-2.99	0.01	0.04321	0.07	0.75
	Red mustard	95.9	0.0001	1.99	0.02	-0.07861	0.001	0.84
Dry matter (g 100 g ⁻¹ FW)	Arugula	5.9	0.0001	-0.06	0.44	0.00383	0.07	0.72
	Red cabbage	6.9	0.0001	-0.11	0.08	0.01043	0.0001	0.98
	Red mustard	6.7	0.0001	-0.22	0.0003	0.01007	0.0001	0.98
Calcium (mg 100 g ⁻¹ FW)	Arugula	121.4	0.0001	-0.50	0.65	0.03018	0.26	0.46
	Red cabbage	187.0	0.0001	-0.82	0.37	0.10740	0.001	0.96
	Red mustard	131.3	0.0001	-1.86	0.10	0.11364	0.001	0.94
Potassium (mg 100 g ⁻¹ FW)	Arugula	378.4	0.0001	2.05	0.71	-0.01669	0.90	0.09
	Red cabbage	309.4	0.0001	-5.27	0.03	0.20002	0.002	0.84
	Red mustard	400.5	0.0001	4.13	0.0002			0.76
Magnesium (mg 100 g ⁻¹ FW)	Arugula	39.3	0.0001	-0.01	0.98	0.01112	0.28	0.64
	Red cabbage	70.8	0.0001	0.21	0.69	0.03419	0.02	0.94
	Red mustard	49.9	0.0001	-0.87	0.03	0.04899	0.0002	0.95
Phosphorus (mg 100 g ⁻¹ FW)	Arugula	57.3	0.0001	-1.39	0.03	0.07420	0.0002	0.95
	Red cabbage	58.6	0.0001	-2.26	0.01	0.14547	0.0001	0.98
	Red mustard	51.5	0.0001	-1.92	0.03	0.11592	0.0001	0.96
Copper (mg 100 g ⁻¹ FW)	Arugula	0.07	0.0038	-0.001	0.56	0.00007	0.22	0.45
	Red cabbage	0.10	0.0004	-0.004	0.139	0.00029	0.0004	0.96
	Red mustard	0.07	0.0007	-0.002	0.31	0.00011	0.02	0.85
Iron (mg 100 g ⁻¹ FW)	Arugula	0.80	0.38	-0.19	0.12	0.01113	0.002	0.91
	Red cabbage	1.83	0.22	-0.75	0.002	0.04533	0.0001	0.99
	Red mustard	1.33	0.42	-0.57	0.02	0.03344	0.0001	0.97
Zinc (mg 100 g ⁻¹ FW)	Arugula	0.26	0.0006	0.02	0.0001			0.83
	Red cabbage	0.15	0.25	0.06	0.0001			0.92
	Red mustard	0.21	0.03	0.03	0.0001			0.88

¹ Linear or quadratic response were selected based on R² value and parameter significance. When linear response showed a better fit, the quadratic coefficient was not reported.