

Supplementary Tables

Table S1. The analysis of variance for protein (Pro), fat (Fat), fiber (Fib), ash (Ash), carbohydrate (Carb), calcium (Ca), potassium (K), magnesium (Mg), phosphorus (P), iron (Fe), and zinc (Zn) of green leaves, inflorescences, and grains for three varieties of quinoa.

Parameter	Source	DF	F value	Pro > F
Pro	Var	2	0.30	0.75
	Treatment	2	406	<0.0001***
	Var x Treatment	4	0.43	0.79
Fat	Var	2	15.85	0.0002***
	Treatment	2	583	<0.0001***
	Var x Treatment	4	4.16	0.02*
Fib	Var	2	12.74	0.0005***
	Treatment	2	3883	<0.0001***
	Var x Treatment	4	5.84	0.004**
Ash	Var	2	6.26	0.01*
	Treatment	2	2060	<0.0001***
	Var x Treatment	4	2.72	0.07
Carb	Var	2	1.19	0.33
	Treatment	2	936	<0.0001***
	Var x Treatment	4	0.82	0.53
Ca	Var	2	1.87	0.19
	Treatment	2	222	<0.0001***
	Var x Treatment	4	4.06	0.02*
K	Var	2	4.58	0.03*
	Treatment	2	1134	<0.0001***
	Var x Treatment	4	2.91	0.05*
Mg	Var	2	3.13	0.07
	Treatment	2	145	<0.0001***
	Var x Treatment	4	2.17	0.11
P	Var	2	0.23	0.80
	Treatment	2	32.89	<0.0001***
	Var x Treatment	4	2.15	0.12
Fe	Var	2	9.69	0.002**
	Treatment	2	0.70	0.51
	Var x Treatment	4	9.10	0.0005***
Zn	Var	2	1.84	0.19
	Treatment	2	97.81	<0.0001***
	Var x Treatment	4	7.67	0.100**

* Significant difference at $p < 0.05$, ** Significant difference at $p < 0.01$, *** Significant difference at $p < 0.001$.

Table S2. Eigenvalue, variability, and cumulative values.

	PC1	PC2
Eigenvalue	8.75	1.52
Variability %	72.94	12.70
Cumulative %	72.94	85.64