

Supplementary Material

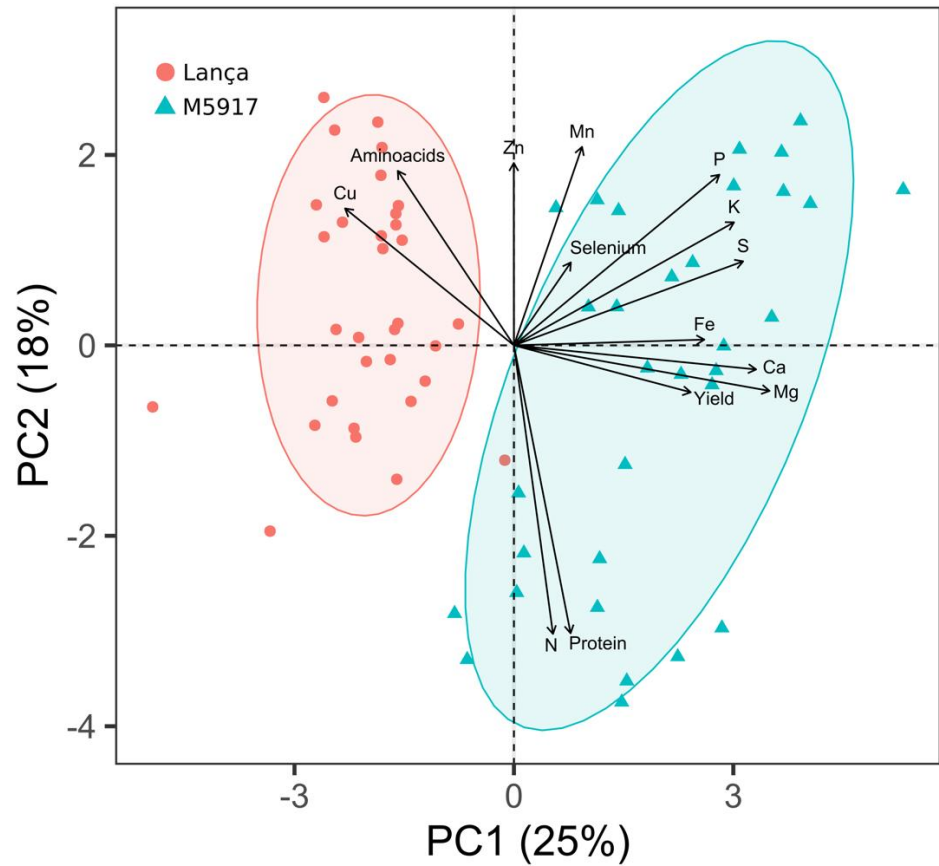


Figure S1. Biplot of principal component analysis (PCA).

Table S1. Summary of F Test (ANOVA) and regression MNF for macronutrient, micro-nutrient, protein, and amino acid analyses.

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Variable	Significance			Adjusted Equation/Mean	R ² (%)	CV (%)
	Rate	MNF	Rate*MNF			
N	ns	ns	ns	ns	-	2.2
P	*	ns	*	With MNF: no adjusted Without MNF: $y = 5.4726 - 0.0029x$	44	2.2
K	ns	ns	*	no adjusted	-	2.4
Ca	ns	ns	ns	ns	-	5.8
Mg	ns	ns	ns	ns	-	3.4
S	ns	ns	***	With MNF: $y = 2.4497 + 0.0012x$ Without MNF: $y = 2.5319 - 0.0018x$	89 68	1.9
Cu	ns	ns	ns	ns	-	7.9
Fe	ns	ns	ns	ns	-	4.2
Mn	ns	ns	ns	ns	-	3.6
Zn	ns	*	ns	ns	-	5.9
Protein	ns	ns	ns	ns	-	2.2
Amino acids	*	ns	*	With MNF: $y = 139.1267 - 0.3811x$ Without MNF = no adjusted	60 -	7.6
M5917						
N	*	ns	ns	General equation: $y = 69.1895 - 0.1130x + 0.0011x^2$	-	2.2
P	*	*	*	With MNF: $y = 5.4893 + 0.0193x - 0.0002x^2$ Without MNF: no adjusted	50 -	3.0

K	*	ns	ns	General equation: $y = 17.5397 + 0.0459x - 0.0005x^2$	77	2.9
Ca	ns	ns	ns	ns	-	6.7
Mg	ns	ns	ns	ns	-	4.6
S	*	*	ns	General equation: $y = 2.5731 + 0.0074x - 0.0001x^2$	63	4.2
Cu	ns	*	*	With MNF: $y = 10.1170 + 0.0387x - 0.0007x^2$	80	
				Without MNF: no adjusted	-	
Fe	ns	ns	ns	ns	-	6.1
Mn	*	ns	ns	General equation: $y = 28.0131 + 0.0190x$	67	3.4
Zn	*	ns	*	General equation: $y = 39.7419 + 0.1295x - 0.0013x^2$	55	3.1
Protein	*	ns	ns	General equation: $y = 43.3434 - 0.0707x + 0.0007x^2$	94	2.2
Amino acids	*	ns	*	no adjusted	-	6.8

* Significance 0.05; ns = no significance by F test; CV = Coefficient of variation; R^2 = regression coefficient