

Supplementary tables S1 and S2

Intercropped Maize and Cowpea Increased the Land Equivalent Ratio and Enhanced Crop Access to More Nitrogen and Phosphorus Compared to Cultivation as Sole Crops

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Table S1. Nutrient concentration in aboveground cabbage tissues when the species was grown after sole maize (M), cowpea (C), and the intercropping of maize and cowpea (M+C).

Treatment	Phosphorus	Potassium	Calcium	Magnesium	Boron	Iron	Manganese	Zinc	Copper	
	g kg ⁻¹				mg kg ⁻¹					
2018										
M	1.1 a	15.8 a	12.8 a	4.8 a	25.4 a	114.1 a	81.4 a	24.4 a	8.2 a	
C	1.2 a	16.9 a	11.0 a	5.0 a	22.0 a	107.3 a	50.1 b	28.2 a	8.3 a	
M+C	1.5 a	18.0 a	9.7 a	4.0 a	26.5 a	87.3 a	53.7 b	19.9 a	9.3 a	
Probability	0.0700	0.4681	0.1572	0.1248	0.3082	0.0517	0.0018	0.0767	0.6231	
Standard error	0.10	1.16	0.98	0.29	1.95	6.02	3.67	2.05	0.84	
2019										
M	1.0 a	19.0 a	13.8 a	3.8 a	33.6 a	316.9 a	99.7 a	34.4 a	4.8 a	
C	1.1 a	19.5 a	14.2 a	4.1 a	39.6 a	166.4 b	98.5 a	33.4 ab	3.8 a	
M+C	1.0 a	15.6 a	14.4 a	3.6 a	35.6 a	205.2 ab	84.6 a	25.6 b	4.7 a	
Probability	0.5269	0.2105	0.8943	0.7324	0.3067	0.0370	0.2090	0.0353	0.4181	
Standard error	0.10	1.49	0.94	0.49	2.53	31.89	5.86	1.93	0.57	

Within each year, and in columns, means followed by the same letter are not significant different by Tukey HSD test ($\alpha = 0.05$).

Table S2. Nutrient recovery in aboveground cabbage tissues when the species was grown after sole maize (M), cowpea (C), and the intercropping of maize and cowpea (M+C).

		Phosphorus	Potassium	Calcium	Magnesium	Boron	Iron	Manganese	Zinc	Copper
Treatment		g kg ⁻¹				mg kg ⁻¹				
2018										
	M	3.6 a	50.4 a	40.6 a	15.6 a	82.1 a	370.6 a	263.2 a	77.4 b	27.3 a
	C	4.6 a	63.5 a	41.9 a	18.9 a	84.3 a	418.8 a	191.5 a	106.8 a	32.8 a
	M+C	5.3 a	63.7 a	33.4 a	13.9 a	92.8 a	304.5 a	188.4 a	68.8 b	32.8 a
	Probability	0.4588	0.2615	0.1239	0.2091	0.7752	0.4306	0.1887	0.0112	0.7973
	Standard error	0.90	5.86	2.65	1.78	82.1 a	370.6 a	263.2 a	77.4 b	27.3 a
2019										
	M	3.6 a	65.0 a	47.2 b	13.3 a	113.6 b	1059.2 a	338.2 b	116.7 a	16.4 a
	C	6.1 a	105.2 a	75.9 a	22.1 a	215.3 a	897.9 a	533.4 a	182.9 a	20.8 a
	M+C	4.8 a	79.7 a	72.8 ab	18.1 a	180.0 ab	1038.8 a	423.4 ab	128.8 a	23.9 a
	Probability	0.0543	0.1474	0.0357	0.1727	0.0355	0.6317	0.0388	0.0854	0.4264
	Standard error	0.57	12.44	6.38	2.83	20.86	124.62	40.43	18.04	3.81

Within each year, and in columns, means followed by the same letter are not significant different by Tukey HSD test ($\alpha = 0.05$).