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## **Supplementary Material**

## Responses in growth, yield and cob protein content of baby corn (*Zea mays*) to amendment of an acid sulfate soil with lime, organic fertiliser and biochar

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		Variance explained	Cumulative variance explained	
Principal component	Eigenvalue	(%)	(%)	
PC1	6.39	39.9	39.9	
PC2	1.81	11.3	51.3	
PC3	1.73	10.8	62.1	
PC4	1.23	7.7	69.7	
PC5	1.10	6.9	76.6	
PC6	0.91	5.7	82.3	
PC7	0.68	4.2	86.5	
PC8	0.54	3.4	89.8	
PC9	0.48	3.0	92.8	
PC10	0.32	2.0	94.8	
PC11	0.25	1.6	96.4	
PC12	0.21	1.3	97.7	
PC13	0.18	1.1	98.8	
PC14	0.10	0.6	99.4	
PC15	0.06	0.4	99.8	
PC16	0.03	0.2	100.0	

Table S1. Eigenvalue, variance accounted for cumulative variance from a principal component analysis.

PC, principal component; principal components with eigenvalues > 1 only are relevent, the first five principal components explain almost 71% of the variation in the data.

## Table S2. Changes in soil properties measured at the start of the trial (S) and after harvest (H) of the baby corn, (H - S): $\Delta pH$ , $\Delta$ electrical conductivity ( $\Delta EC$ ), total organic carbon ( $\Delta TOC$ ) and total N ( $\Delta TN$ ).

Lime (t/ha)	Organic	<b>Biochar rate</b>	ΔpH	ΔΕС	ΔΤC	ΔΤΝ
	fetiliser (t/ha)	(t/ha)				
0	0	0	-0.03a	-0.60b	-0.09	-0.002
		10	-0.22bc	-0.16a	-0.26	-0.014
		30	-0.12bc	-0.04a	-0.01	-0.003
		Mean	-0.12	-0.40b	-0.11	-0.006
	5	0	-0.22bc	-0.45b	-0.12	-0.002
		10	-0.18bc	-0.30b	-0.16	-0.007
		30	-0.21bc	-0.31b	0.04	-0.007
		Mean	-0.20	-0.36b	-0.08	-0.005
Mean			-0.16A	-0.04A	-0.09	-0.008
2	0	0	-0.18bc	-0.23a	0.15	-0.009
		10	-0.25bc	-0.16a	0.28	-0.004
		30	-0.29c	-0.15a	-0.01	-0.018
		Mean	-0.24	-0.20a	0.07	-0.010
:	5	0	-0.33bc	-0.18a	-0.25	-0.016
		10	-0.01a	-0.51b	0.15	-0.006
		30	0.08a	-0.31b	-0.17	-0.006
		Mean	-0.14	-0.35 <i>ab</i>	-0.09	-0.009
Mean			-0.18A	-0.33B	0.00	-0.007

Means in the same column for each lime treatment followed by different letter (s) are significantly different at p < 0.05; differences amongst mean effects of organic fertilizer and lime are indicated with capital letter(s).