

Appendices

Appendix Table 4.1. Physicochemical properties of the soils on the experimental sites

Properties	Sirinka		Kobo	
	0-15 cm	15-30 cm	0-15 cm	15-30 cm
pH (1:1 H ₂ O)	6.64	6.61	7.38	7.31
Total N (%)	0.14	0.15	0.09	0.09
Available P (Olsen, ppm)	10.40	8.60	13.60	10.40
Organic C (%)	1.68	1.39	1.20	1.22
Clay (%)	57.5	60.0	47.5	45.0
Silt (%)	35.0	32.5	42.5	42.5
Sand (%)	7.5	7.5	10.0	12.5

Appendix Table 5.1. Effects of FYM and inorganic fertilizers on panicle yield at harvest and 1000-seed weight (data pooled over five growing seasons)

FYM	Panicle yield (kg ha ⁻¹)				1000-seed weight (g)			
	0 F ⁺⁺	50 F	100 F	Mean	0 F ⁺⁺	50 F	100 F	Mean
0 t ha ⁻¹	4229a	4283a	4619a	4377C	23.6d	26.3a	25.0a-d	25.0A
5 t ha ⁻¹	4354a	4846a	5005a	4735B	24.8bcd	24.8bcd	25.4abc	25.0A
10 t ha ⁻¹	4274a	5080a	4770a	4708B	25.2abc	25.9ab	23.8d	25.0A
15 t ha ⁻¹	4604a	5247a	5454a	5102A	24.1cd	26.1ab	25.6ab	25.2A
Mean	4366B	4864A	4962A		24.4B	25.8A	24.9B	

⁺⁺ Indicate % of the recommended inorganic fertilizer rates. Means within rows and columns followed by the same letters are not significantly different at P<0.05 for each comparison.

Appendix Table 7.1. Physicochemical properties of the soils on the two experimental sites

Properties	Sirinka		Kobo	
	0-15 cm	15-30 cm	0-15 cm	15-30 cm
pH (1:2.5 H ₂ O)	6.7	6.7	7.38	7.38
Total N (%)	0.14	0.13	0.10	0.11
Available P (Olsen, ppm)	8.20	8.00	13.60	10.20
Organic C (%)	1.53	1.51	1.28	1.28
Ca ²⁺ (cmol kg ⁻¹)	22.03	19.93	15.95	19.33
Mg ²⁺ (cmol kg ⁻¹)	2.95	3.93	10.7	7.93
Na ⁺ (cmol kg ⁻¹)	0.61	0.61	0.27	0.29
K ⁺ (cmol kg ⁻¹)	1.10	0.97	0.44	0.40
CEC (cmol kg ⁻¹)	57.16	33.32	54.86	43.2
Clay (%)	55.0	57.5	52.5	52.5
Silt (%)	35.0	35.0	37.5	35.0
Sand (%)	10.0	7.5	10.0	12.5