Supplementary information

Table S1: Average disease severity scores (of leaf and pseudostem) of the mother plants of the susceptible cultivar 'Sukali Ndizi' at each monitoring interval of Trial 1. Severity scores of treatments significantly different from the control plots are indicated in bold. Tukey means separation was performed at each time interval. At each time interval (days since planting), means followed by a different letter are significantly different (p-value indicated). At intervals when no significant difference (n.s.) was observed, letters are not indicated. Standard deviations are provided.

Day since planting	Treatment	Disease severity scores of		P-values of scores	
		Leaves	Pseudostem	Leaves	Pseudostem
224	Control	0.3 ± 0.5	0.1 ± 0.4 a		
224	FYM	0.1 ± 0.4	0.3 ± 0.6 ab		
224	SPoS	0.3 ± 0.6	0.3 ± 0.6 ab		
224	SPoS + FYM	0.1 ± 0.5	**0.5 ± 0.7 b**	n.s.	P < 0.01
250	Control	0.6 ± 1.0 ab	1.2 ± 0.9		
250	FYM	0.3 ± 0.6 b	1.2 ± 0.9		
250	SPoS	0.8 ± 1.2 a	1.1 ± 0.9		
250	SPoS + FYM	0.3 ± 0.6 b	1.2 ± 0.8	P < 0.01	n.s
286	Control	0.3 ± 0.9 ab	0.7 ± 0.6 a		
286	FYM	0.2 ± 0.8 a	0.6 ± 0.5 ab		
286	SPoS	0.2 ± 0.8 a	0.7 ± 0.5 a		
286	SPoS + FYM	0.7 ± 1.1 b	**0.4 ± 0.5 b**	P < 0.05	P < 0.001
314	Control	0.1 ± 0.6	0.7 ± 0.7		
314	FYM	0.1 ± 0.6	0.6 ± 0.5		
314	SPoS	0.1 ± 0.4	0.6 ± 0.5		
314	SPoS + FYM	0.1 ± 0.3	0.6 ± 0.5	n.s	n.s
346	Control	1.3 ± 1.5	1.0 ± 0.6		
346	FYM	1.2 ± 1.4	1.0 ± 0.5		
346	SPoS	1.3 ± 1.4	0.9 ± 0.6		
346	SPoS + FYM	0.9 ± 1.3	0.9 ± 0.5	n.s	n.s
368	Control	1.2 ± 1.3	1.1 ± 0.5 a		
368	FYM	0.8 ± 1.3	**0.8 ± 0.4 b**		
368	SPoS	0.8 ± 1.2	1.0 ± 0.2 ab		
368	SPoS + FYM	1.1 ± 1.3	**0.9 ± 0.3 b**	n.s	P < 0.001
406	Control	1.3 ± 1.2	1.3 ± 0.6 a		
406	FYM	1.4 ± 1.5	**0.9 ± 0.5 b**		
406	SPoS	1.3 ± 1.4	**1.0 ± 0.2 b**		
406	SPoS + FYM	1.2 ± 1.3	**0.7 ± 0.5 c**	n.s	P < 0.001
433	Control	1.4 ± 1.2 ab	1.6 ± 0.6		
433	FYM	1.6 ± 1.1 a	1.4 ± 0.8		
433	SPoS	1.1 ± 0.9 b	1.4 ± 0.8		
433	SPoS + FYM	1.2 ± 1.0 ab	1.3 ± 0.8	P < 0.05	n.s

Table S2: Average disease severity scores (of leaf and pseudostem) of the ratoon crop of the susceptible cultivar 'Sukali Ndizi' at each monitoring interval of Trial 1. Severity scores of treatments significantly different from the control plots are indicated in bold. Tukey means separation was performed at each time interval. At each time interval (days since planting), means followed by a different letter are significantly different (p-value indicated). At intervals when no significant difference (n.s.) was observed, letters are not indicated. Standard deviations are provided.

Day since planting	Treatment	Disease severity scores of		P-values of scores	
		Leaves	Pseudostem	Leaves	Pseudostem
470	Control	2.2 ± 0.5	1.4 ± 0.7		
470	FYM	2.3 ± 0.5	1.6 ± 0.7		
470	SPoS	2.0 ± 0.6	1.4 ± 0.8		
470	SPoS + FYM	2.1 ± 0.8	1.1 ± 0.9	n.s	n.s
497	Control	2.2 ± 0.5	1.3 ± 0.5		
497	FYM	2.2 ± 0.6	1.3 ± 0.7		
497	SPoS	1.9 ± 0.3	1.0 ± 0.9		
497	SPoS + FYM	2.2 ± 0.4	1.0 ± 0.9	n.s	n.s
530	Control	2.4 ± 0.7	1.4 ± 0.5		
530	FYM	2.4 ± 0.7	1.2 ± 0.8		
530	SPoS	2.0 ± 0.6	1.2 ± 0.6		
530	SPoS + FYM	2.0 ± 0.0	1.3 ± 0.7	n.s	n.s
560	Control	3.0 ± 0.9 a	1.6 ± 0.5		
560	FYM	2.8 ± 0.6 a	1.2 ± 0.6		
560	SPoS	2.8 ± 0.4 a	1.2 ± 0.5		
560	SPoS + FYM	**2.1 ± 0.3 b**	1.3 ± 0.7	P < 0.01	n.s
594	Control	2.7 ± 0.8 a	1.5 ± 0.5 a		
594	FYM	2.8 ± 0.6 ab	1.8 ± 0.5 a		
594	SPoS	2.6 ± 0.5 ab	1.4 ± 0.5 a		
594	SPoS + FYM	**2.1 ± 0.3 b**	**0.8 ± 0.4 b**	P < 0.05	P < 0.001
615	Control	2.8 ± 0.9 a	1.5 ± 0.5		
615	FYM	2.2 ± 0.6 ab	1.7 ± 0.5		
615	SPoS	2.2 ± 0.5 ab	1.3 ± 0.5		
615	SPoS + FYM	**1.8 ± 0.6 b**	1.4 ± 0.5	P < 0.01	n.s
651	Control	2.9 ± 0.7 a	1.7 ± 0.5		
651	FYM	2.6 ± 0.5 a	1.6 ± 0.5		
651	SPoS	2.6 ± 0.5 a	1.6 ± 0.5		
651	SPoS + FYM	**1.9 ± 0.3 b**	1.3 ± 0.5	P < 0.001	n.s
687	Control	2.9 ± 0.9 a	1.7 ± 0.5		
687	FYM	**2.2 ± 0.4 b**	1.5 ± 0.5		
687	SPoS	2.2 ± 0.9 ab	1.4 ± 0.5		
687	SPoS + FYM	**1.9 ± 0.3 b**	1.3 ± 0.5	P < 0.01	n.s

Table S3: Average disease severity scores (of leaf and pseudostem) of the susceptible cultivar 'Sukali Ndizi' at each monitoring interval of Trial 2. Tukey means separation was performed at each time interval. At each time interval (days since planting), means followed by a different letter are significantly different (p-value indicated). At intervals when no significant difference (n.s.) was observed, letters are not indicated. Standard deviations are provided.

Day since planting	Treatment	Disease severity scores of		P-values of scores	
		Leaves	Pseudostem	Leaves	Pseudostem
163	Control	0.3 ± 0.6	0.0 ± 0.0		
163	SPoS	0.1 ± 0.3	0.0 ± 0.0	n.s.	n.s.
202	Control	0.3 ± 0.6	0.0 ± 0.0 a		
202	SPoS	0.4 ± 0.9	1.0 ± 0.0 b	n.s.	P < 0.001
218	Control	0.0 ± 0.0	0.2 ± 0.4 a		
218	SPoS	0.3 ± 0.7	1.0 ± 0.0 b	n.s.	P < 0.001

Figure S1

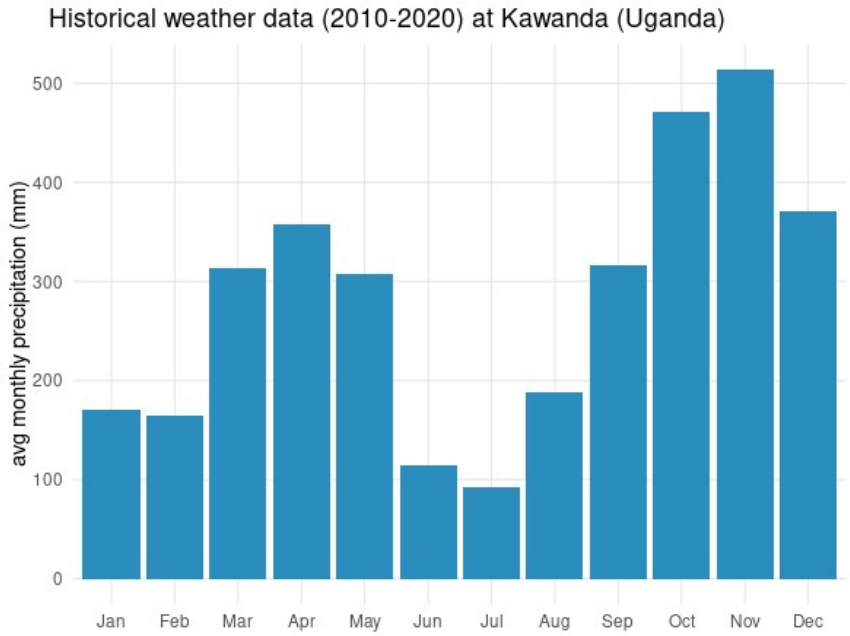


Figure S1: Historical weather data (2010-2020) at Kawanda, Uganda

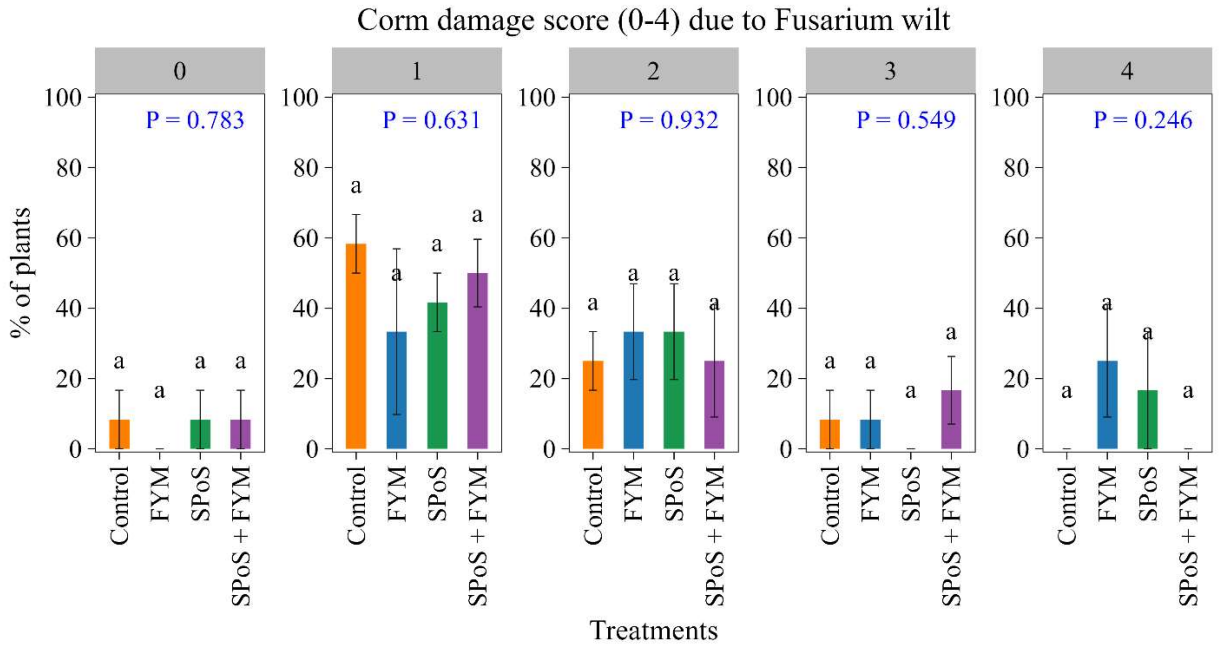


Figure S2. Percentage of plants at different corm damage score thresholds (i.e. 0 to 4), 687 days after treatment application. The treatments include a control without any amendment, farmyard manure (FYM), spent P. ostreatus substrate (SPoS) and a mixture of SPoS with FYM. The scores from 0 to 4, respectively, denote no internal corm symptoms, few internal spots to 1/3 discolored, 1/3-2/3 discolored, >2/3 discolored, and all inner corm sections (cortex to central cylinder) discolored. Means followed by the same letter are not significantly different at 5% Tukey HSD.