



Appendices

SOV	DF	Plant height (cm)	Ear height (cm)	Leaf area index
Replication	2	1510.59	0.39	0.68
Varieties	2	7001.30**	0.30*	3.44**
Spacing	4	1990.20*	0.023ns	1.46*
Varieties*Spacing	8	916.19	0.01	1.61**
Error	28	591.82	0.13	0.22
CV (%)		12.14	11.32	7.76

Where SOV= Sources of Variation, *, **, *** significant at $P \leq 0.05$, $p \leq 0.01$ and $P \leq 0.001$ probability levels respectively, ns=non-significant difference

Appendix Table 1: Mean square values of ANOVA on the agronomic and yield components of Maize varieties with different intra-row spacing

SOV	DF	Days to physiological maturity	Days to 50% tasselling	Days to 50% silking
Replication	2	3.89	0.62	1.36
Varieties	2	212.36**	210.16**	208.68**
Spacing	4	79.11**	2.87*	16.26**
Varieties*Spacing	8	11.49	1.68	1.69**
Error	28	5.98	1.43	1.43
CV (%)		2.21	1.89	1.82

Where SOV= Sources of Variation, *, **, *** significant at $P \leq 0.05$, $p \leq 0.01$ and $P \leq 0.001$ probability levels respectively, ns=non-significant difference

Appendix Table 2: Mean square values of ANOVA on the agronomic and yield components of Maize varieties with different intra-row spacing

SOV	DF	Number of grain row per ear	Number of grain per row	Number of grain per ear
Replication	2	0.08	5.58	3892
Varieties	2	4.27*	94.34**	33853
Spacing	4	5.83**	13.82**	13825
Varieties*Spacing	8	3.79**	14.66*	14755
Error	28	1.08	6.43	5089
CV (%)		6.9	6.84	12.95

Where SOV= Sources of Variation, *, **, *** significant at $P \leq 0.05$, $p \leq 0.01$ and $P \leq 0.001$ probability levels respectively, ns=non-significant difference

Appendix Table 3: Mean square values of ANOVA on the agronomic and yield components of Maize varieties with different intra-row spacing

SOV	DF	Hundred grain weight	Above ground biomass
Replication	2	2.07	90769920*
Varieties	2	48.07**	188100400***
Spacing	4	48.14**	158236401***
Varieties*Spacing	8	15.59	34387295.00**
Error	28	7.97	20348106
CV (%)		8.54	20.58

Where SOV= Sources of Variation, *, **, *** significant at $P \leq 0.05$, $p \leq 0.01$ and $P \leq 0.001$ probability levels respectively, ns=non-significant difference

Appendix Table 4: mean square values of ANOVA on the Agronomic and Yield components of Maize varieties with different intra-row spacing

SOV	DF	Adjusted grain yield	Harvest index
Replication	2	936661.38	51.54
Varieties	2	8088282***	30.45ns
Spacing	4	15549901***	26.54*
Varieties*Spacing	8	2271596*	29.24**
Error	28	800193	17.54
CV (%)		15.06	15.03

Where SOV= Sources of Variation, *, **, *** significant at $P \leq 0.05$, $p \leq 0.01$ and $P \leq 0.001$ probability levels respectively, ns=non-significant difference

Appendix Table 5: mean square values of ANOVA on the agronomic and yield components of Maize varieties with different intra-row spacing