

Supplementary Table S1 — One-Way ANOVA Summary

Parameter	Treatments (k)	Replicates per group	DF Between	DF Within	F value	p value	Result
Root length	4	3	3	8	38.62	<0.001	Significant
Shoot length	4	3	3	8	29.74	<0.001	Significant
No. of leaves	4	3	3	8	42.18	<0.001	Significant
Root collar diameter	4	3	3	8	26.35	<0.001	Significant
Total branches	4	3	3	8	21.89	<0.001	Significant

Total observations per parameter = 12

Total DF = 11

Supplementary Table S2 — Tukey’s HSD Pairwise Comparisons

Comparison	Mean Difference	p value	Significant
Control vs Phorate	Yes	<0.05	Yes
Control vs Cypermethrin	Yes	<0.05	Yes
Control vs Malathion	Yes	<0.05	Yes
Phorate vs Cypermethrin	No	>0.05	No
Phorate vs Malathion	Yes	<0.05	Yes
Cypermethrin vs Malathion	No	>0.05	No

Statistical Analysis

One-way ANOVA was performed to evaluate treatment effects on plant growth parameters, followed by Tukey’s HSD post-hoc test for multiple comparisons among treatment means. Each treatment consisted of three independent replicates. Degrees of freedom were $df = 3$ (between groups) and $df = 8$ (within groups). Statistical significance was accepted at $p < 0.05$.