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Supplementary Table 1. Effect of organic amendments on plant height under different soil orders

Treatment	Plant height (cm)			
	30 DAS	45 DAS	60 DAS	Harvest
O ₁	23 ± 0.84a	33.12 ± 0.53 a	59.57 ± 0.95 a	60.46 ± 0.91 a
O ₂	20.98 ± 0.81a	31.1 ± 0.49 b	55.19 ± 0.94 c	55.68 ± 0.94 c
O ₃	22.27 ± 0.84a	32.41 ± 0.53 ab	58.1 ± 0.82 ab	58.67 ± 0.83 ab
O ₄	21.4 ± 0.81a	31.57 ± 0.53 b	56.82 ± 0.83 bc	57.26 ± 0.81 bc
SEm (±)	0.78	0.38	0.50	0.51
CD (p = 0.05)	2.21	1.08	1.39	1.42
T ₁	18.38 ± 0.61 ^d	28.82 ± 0.36 e	53 ± 0.97 d	53.84 ± 1.01 d
T ₂	19.15 ± 0.73 ^{cd}	30.48 ± 0.65 d	54.08 ± 0.67 cd	54.75 ± 0.74 d
T ₃	21.34 ± 0.75 ^{bc}	31.24 ± 0.55 cd	55.35 ± 0.77 c	55.91 ± 0.78 cd
T ₄	22.45 ± 1.16 ^{ab}	32.48 ± 0.45 bc	57.58 ± 0.84 b	58.15 ± 0.87 bc
T ₅	24.68 ± 0.82 ^a	34.68 ± 0.46 a	64 ± 0.55 a	64.54 ± 0.61 a
T ₆	24.21 ± 0.97 ^a	33.61 ± 0.44 ab	59.27 ± 0.72 b	59.64 ± 0.73 b
T ₇	23.19 ± 1.19 ^{ab}	33.02 ± 0.46 b	58.67 ± 0.72 b	59.28 ± 0.79 b
SEm (±)	1.03	0.50	0.66	0.68
CD (p = 0.05)	2.86	1.39	1.84	1.88
Interaction				
SEm (±)	2.06	0.99	1.32	1.35
CD (p = 0.05)	NS	NS	NS	NS

Supplementary Table 2. Analysis of Variance (ANOVA) for 30 DAS

ANOVA (30 DAS)						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	47.05	23.53	1.84	3.16	NS
Total treatment	27	480.54	17.80	1.40	1.69	NS
Order (A)	3	51.40	17.13	1.34	2.77	NS
Treatment (B)	6	423.43	70.57	5.53	2.27	S
AXB	18	5.72	0.32	0.02	1.79	NS
Error (R-1) (AB-1)	56	714.35	12.76			
Total	83	1194.89				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 3. Analysis of Variance (ANOVA) for 45 DAS

ANOVA (45 DAS)						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	3.25	1.62	0.55	3.16	NS
Total Treatment	27	386.34	14.31	4.83	1.69	S
Order (A)	3	30.92	10.31	3.48	2.77	S
Treatment (B)	6	342.11	57.02	19.24	2.27	S
AXB	18	13.31	0.74	0.25	1.79	NS
Error (R-1) (AB-1)	56	165.95	2.96			
Total	83	552.30				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 4. Analysis of Variance (ANOVA) for 60 DAS

ANOVA (60 DAS)						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	3.73	1.87	0.35	3.16	NS
Total Treatment	27	1236.64	45.80	8.71	1.69	S
Order (A)	3	219.02	73.01	13.88	2.77	S
Treatment (B)	6	998.90	166.48	31.66	2.27	S
AXB	18	18.72	1.04	0.20	1.79	NS
Error (R-1) (AB-1)	56	294.52	5.26			
Total	83	1531.16				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 5. Analysis of Variance (ANOVA) for harvest

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	2.22	1.11	0.20	3.16	NS
Total Treatment	27	1234.24	45.71	8.31	1.69	S
Order (A)	3	261.07	87.02	15.83	2.77	S
Treatment (B)	6	952.62	158.77	28.87	2.27	S
AXB	18	20.55	1.14	0.21	1.79	NS
Error (R-1) (AB-1)	56	307.93	5.50			
Total	83	1542.18				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 6. Effect of organic amendments on the number of nodules plant⁻¹ under different soil orders

Treatment	Root nodules (cm)		
	30 DAS	45 DAS	60 DAS
O1	8.33 ± 0.37 a	12.87 ± 0.61 a	5.92 ± 0.23 a
O2	7.9 ± 0.33 a	11.76 ± 0.6 a	5.48 ± 0.27 a
O3	8.18 ± 0.39 a	12.45 ± 0.74 a	5.78 ± 0.28 a
O4	8.07 ± 0.38 a	12.24 ± 0.62 a	5.67 ± 0.23 a
SEm (±)	0.38	0.37	0.25
CD (p = 0.05)	2.31	1.12	1.54
T ₁	6.54 ± 0.28 b	9.59 ± 0.35 e	4.52 ± 0.17 c
T ₂	7.74 ± 0.5 ab	10.07 ± 0.34 e	5.13 ± 0.36 bc
T ₃	8.01 ± 0.3 a	10.81 ± 0.46 de	5.79 ± 0.32 ab
T ₄	8.31 ± 0.22 a	11.43 ± 0.4 cd	6.05 ± 0.25 a

T ₅	9.06 ± 0.61 a	16.95 ± 0.49 a	6.24 ± 0.33 a
T ₆	8.51 ± 0.56 a	15.16 ± 0.47 b	6.16 ± 0.24 a
T ₇	8.68 ± 0.47 a	12.28 ± 0.49 c	6.1 ± 0.32 a
SEm (±)	0.50	0.48	0.34
CD (<i>p</i> = 0.05)	NS	NS	NS
Interaction			
SEm (±)	1.0	0.96	0.67
CD (<i>p</i> = 0.05)	NS	NS	NS

Supplementary Table 7. Analysis of Variance (ANOVA) for 30 DAS root nodules

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	1.78	0.89	0.29	3.16	NS
Total Treatment	27	60.97	2.26	0.75	1.69	NS
Order (A)	3	2.04	0.68	0.22	2.77	NS
Treatment (B)	6	48.31	8.05	2.66	2.27	S
AXB	18	10.62	0.59	0.20	1.79	NS
Error (R-1) (AB-1)	56	169.35	3.02			
Total	83	230.32				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 8. Analysis of Variance (ANOVA) for 45 DAS root nodules

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	5.29	2.64	0.94	3.16	NS
Total Treatment	27	555.72	20.58	7.35	1.69	S
Order (A)	3	13.32	4.44	1.58	2.77	NS
Treatment (B)	6	539.89	89.98	32.11	2.27	S
AXB	18	2.51	0.14	0.05	1.79	NS
Error (R-1) (AB-1)	56	156.92	2.80			
Total	83	712.64				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 9. Analysis of Variance (ANOVA) for 60 DAS root nodules

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	3.36	1.68	1.25	3.16	NS
Total Treatment	27	32.77	1.21	0.90	1.69	NS
Order (A)	3	2.13	0.71	0.53	2.77	NS
Treatment (B)	6	30.19	5.03	3.73	2.27	S
AXB	18	0.45	0.03	0.02	1.79	NS
Error (R-1) (AB-1)	56	75.47	1.35			
Total	83	108.23				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 10. Analysis of Variance (ANOVA) for branches per plant

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	0.25	0.12	0.70	3.16	NS
Total Treatment	27	40.82	1.51	8.56	1.69	S
Order (A)	3	3.20	1.07	6.04	2.77	S
Treatment (B)	6	36.78	6.13	34.69	2.27	S
AXB	18	0.84	0.05	0.26	1.79	NS
Error (R-1) (AB-1)	56	9.90	0.18			
Total	83	50.72				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 11. Analysis of Variance (ANOVA) for leaves per plant

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	19.81	9.90	1.65	3.16	NS
Total Treatment	27	668.04	24.74	4.12	1.69	S
Order (A)	3	145.85	48.62	8.09	2.77	S
Treatment (B)	6	500.62	83.44	13.88	2.27	S
AXB	18	21.57	1.20	0.20	1.79	NS
Error (R-1) (AB-1)	56	336.67	6.01			
Total	83	1004.70				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 12. Analysis of Variance (ANOVA) for first flowering

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	26.60	13.30	1.95	3.16	NS
Total Treatment	27	1163.08	43.08	6.33	1.69	S
Order (A)	3	104.51	34.84	5.12	2.77	S

Treatment (B)	6	1033.67	172.28	25.30	2.27	S
AXB	18	24.90	1.38	0.20	1.79	NS
Error (R-1) (AB-1)	56	381.33	6.81			
Total	83	1544.42				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 13. Analysis of Variance (ANOVA) for No of pods per plant

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	6.10	3.05	0.79	3.16	NS
Total Treatment	27	866.70	32.10	8.32	1.69	S
Order (A)	3	32.32	10.77	2.79	2.77	S
Treatment (B)	6	831.62	138.60	35.93	2.27	S
AXB	18	2.76	0.15	0.04	1.79	NS
Error (R-1) (AB-1)	56	216.00	3.86			
Total	83	1082.70				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 14. Analysis of Variance (ANOVA) for seeds per pod

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	1.17	0.58	0.37	3.16	NS
Total Treatment	27	213.08	7.89	4.95	1.69	S
Order (A)	3	33.46	11.15	6.99	2.77	S
Treatment (B)	6	175.50	29.25	18.34	2.27	S
AXB	18	4.12	0.23	0.14	1.79	NS
Error (R-1) (AB-1)	56	89.33	1.60			
Total	83	302.42				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 15. Analysis of Variance (ANOVA) for seeds per plant

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	1755.93	877.96	0.57	3.16	NS
Total Treatment	27	285718.70	10582.17	6.92	1.69	S
Order (A)	3	23513.56	7837.85	5.13	2.77	S
Treatment (B)	6	257853.62	42975.60	28.12	2.27	S
AXB	18	4351.52	241.75	0.16	1.79	NS
Error (R-1) (AB-1)	56	85575.33	1528.13			
Total	83	371294.04				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 16. Analysis of Variance (ANOVA) for yield

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	2.53	1.27	0.03	3.16	NS
Total Treatment	27	6163.11	228.26	5.42	1.69	S
Order (A)	3	295.70	98.57	2.34	2.77	NS
Treatment (B)	6	5810.59	968.43	22.98	2.27	S
AXB	18	56.82	3.16	0.07	1.79	NS
Error (R-1) (AB-1)	56	2360.09	42.14			
Total	83	8523.20				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 17. Analysis of Variance (ANOVA) for available N

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	4.36	2.18	0.59	3.16	NS
Total Treatment	27	80396.34	2977.64	808.18	1.69	S
Order (A)	3	55335.44	18445.15	5006.32	2.77	S
Treatment (B)	6	21792.26	3632.04	985.80	2.27	S
AXB	18	3268.64	181.59	49.29	1.79	S
Error (R-1) (AB-1)	56	206.33	3.68			
Total	83	80602.66				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 18. Analysis of Variance (ANOVA) for available P

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	1.04	0.52	0.67	3.16	NS
Total Treatment	27	8251.20	305.60	394.20	1.69	S
Order (A)	3	4965.91	1655.30	2135.24	2.77	S
Treatment (B)	6	2895.52	482.59	622.51	2.27	S
AXB	18	389.77	21.65	27.93	1.79	S
Error (R-1) (AB-1)	56	43.41	0.78			
Total	83	8294.61				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.

Supplementary Table 19. Analysis of Variance (ANOVA) for available K

ANOVA						
SV	DF	SS	MS	Cal. F	Tab. F	Significance
Replication	2	4.81	2.41	1.42	3.16	NS
Total Treatment	27	6632.87	245.66	144.82	1.69	S
Order (A)	3	4859.15	1619.72	954.83	2.77	S
Treatment (B)	6	1462.86	243.81	143.73	2.27	S
AXB	18	310.86	17.27	10.18	1.79	S
Error (R-1) (AB-1)	56	95.00	1.70			
Total	83	6727.86				

SV: source of variation; DF: degrees of freedom; SS: sum of squares; MS: mean sum of squares; Cal. F: calculated F-value; Tab. F: tabulated F-value; NS: non-significant.