

Table 1 Suppl. Physical and chemical properties of acid lateritic soil.

Items	Total nitrogen content [g kg ⁻¹]	Total phosphorous content [g kg ⁻¹]	Total potassium content [g kg ⁻¹]	Alkali-hydrolyzable nitrogen content [mg kg ⁻¹]	Available phosphorous content [mg kg ⁻¹]	Available potassium content [mg kg ⁻¹]	pH value
Soil	0.31	0.14	0.10	104.17	17.50	46.50	6.17

Table 2 Suppl. Nitrogen supply variations in different treatments.

Mean N supply [g plant ⁻¹] Variations in N content in fertilizers [mg]										
0	0	0	0	0	0	0	0	0	0	0
1.8	160.5	164.5	168.7	172.9	177.3	182.7	185.3	191.0	195.8	200.8
3.6	291.9	305.3	319.2	333.9	349.1	365.1	381.9	399.3	417.6	436.8
5.4	394.1	418.5	444.4	471.8	501.0	532.0	564.9	599.8	636.9	676.3
7.2	503.3	543.0	585.9	632.1	682.0	735.9	794.0	856.7	924.4	997.3

Table 3 Suppl. The analysis of variance of principal components of irradiance and nitrogen supply affection of *Horsfieldia. hainanensis* seedling growth.

Components	Initial Eigenvalues			Quadratic sum extraction		
	total	var [%]	accumulation [%]	total	var [%]	accumulation [%]
1	8.109	67.572	67.572	8.109	67.572	67.572
2	2.467	20.561	88.133	2.467	20.561	88.133
3	0.753	6.274	94.407			
4	0.249	20.074	96.481			
5	0.167	1.395	97.877			
6	0.098	0.817	98.693			
7	0.058	0.480	99.173			
8	0.043	0.361	99.534			
9	0.035	0.295	99.828			
10	0.016	0.129	99.958			
11	0.005	0.042	100.000			
12	0.000	0.000	100.000			

Table 4 Suppl. Factor load matrix and eigenvector matrix.

Fields	Factor load 1	Factor load 2	The eigenvector 1	The eigenvector 2
Height growth	0.884	0.349	0.310	0.222
Stem diameter growth	0.929	0.274	0.326	0.174
Leaf area	0.298	0.688	0.105	0.438
Total dry mass	0.925	0.338	0.325	0.215
Root dry mass	0.973	0.010	0.342	0.006
Stem dry mass	0.908	0.375	0.319	0.239
Leaf dry mass	0.847	0.481	0.297	0.306
Total root length	0.694	-0.665	0.244	-0.423
Total root surface area	0.732	-0.560	0.257	-0.357
Total root volume	0.928	-0.217	0.326	-0.138
Mean root diameter	0.756	-0.506	0.265	-0.322
Root tip number	0.762	-0.502	0.268	-0.320

Table 5 Suppl. Variance analysis of irradiance and nitrogen supply interactions on overall growth of *Horsfieldia hainanensis* seedlings.

Regression	DF	Type I Sum of squares	R-square	F-value	Pr > F
Linear	2	2.532986	0.1333	8.01	0.0048
Quadratic	2	14.242798	0.7496	45.06	<.0001
Crossproduct	1	0.011581	0.0006	0.07	0.7906
Total Model	5	16.787365	0.8835	21.24	<.0001