

TABLE 1. *F*-ratios from a mixed model with species as a random effect and legume or nonlegume status (group), light level (light), soil type treatment (soil), and seed mass (seed) as fixed effects.

Variable	Group	Soil	Light	Seed	Group \times soil	Group \times light	Soil \times light	Group \times seed	Soil \times seed	Light \times seed	Group \times soil \times light	Group \times soil \times seed	Group \times light \times seed	Soil \times light \times seed	Group \times soil \times light \times seed	Denominator df
Final height	2.435	4.115*	16.229***	0.005	1.348	6.322*	0.051	0.356\$	22.621***	0.015	2.333	3.224\$	2.822\$	0.084	2.880\$	334, 15
Biomass	10.206**	16.667***	5.489*	4.640*	5.186*	0.001	0.262	2.638	22.436***	3.229\$	0.002	14.500***	3.832\$	4.403*	3.585\$	334, 15
LMF	0.047	0.176	10.898**	0.879	3.579\$	2.252	0.000	1.250	5.860*	0.084	1.114	2.453	0.972	0.220	0.021	334, 15
SMF	5.687*	0.049	4.031*	0.002	1.702	2.485	0.054	0.801	4.001*	0.235	0.153	0.003	0.637	0.027	0.135	334, 15
RMF	3.068	0.294	14.887***	0.535	2.125	0.768	0.229	1.125	0.588	0.096	0.931	0.557	0.076	0.488	0.104	334, 15
Internode number	0.150	0.371	1.252	4.252\$	0.476	0.374	8.772**	4.199\$	23.820***	2.791	0.676	11.482***	0.177	5.798*	0.032	334, 15
Internode length	1.960	4.650*	31.436***	0.242	0.0243	6.537*	2.357	0.000	3.839*	0.230	0.324	2.510	2.787	0.950	0.555	331, 15
$\delta^{13}\text{C}$	0.113	6.272*	14.574***	0.171	3.331\$	1.558	0.067	0.573	0.337	1.214	0.007	0.737	0.469	0.480	0.001	201, 8
%N	0.499	7.228**	23.508***	1.301	1.254	0.002	0.140	0.023	1.818	3.526\$	0.029	3.749\$	0.197	0.005	0.016	201, 8
Total N	0.544	25.525***	6.818**	2.373	1.216	0.228	0.465	0.333	6.053*	1.043	0.154	0.300	0.220	0.400	0.249	201, 8
RGR	0.782	0.003	0.270	4.850*	0.243	0.089	0.014	0.085	0.080	0.717	0.002	0.123	1.641	1.279	0.697	38, 13
Numerator df	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

Notes: Significance: \$ $P < 0.10$, * $P < 0.05$, ** $P < 0.01$, and *** $P < 0.001$. The first denominator df is for all the variables except group and seed mass, and the second one is for group and seed mass. LMF = leaf mass fraction, SMF = stem mass fraction, RMF = root mass fraction, N = nitrogen, RGR = relative growth rate (grams per day).