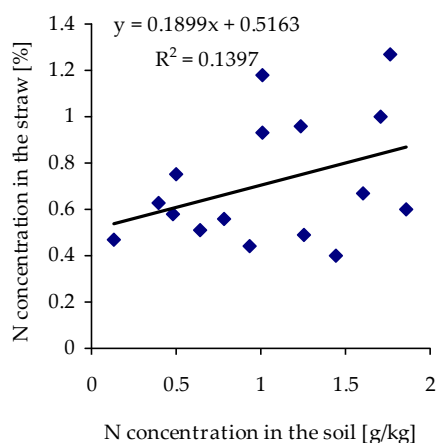
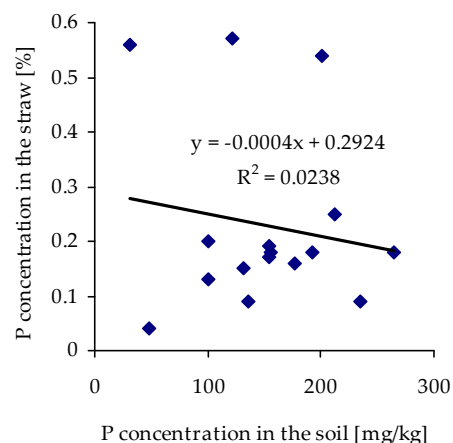


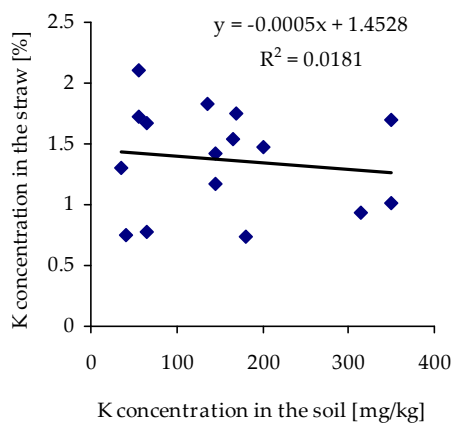
Supplementary Materials



(a)

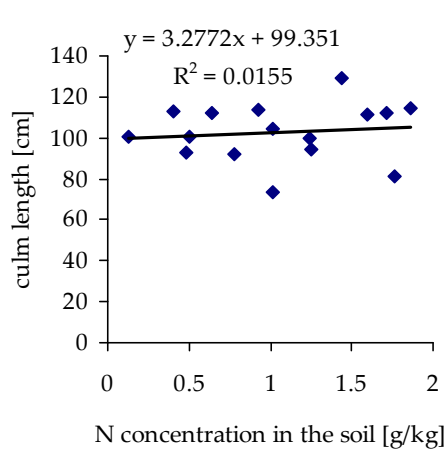


(b)

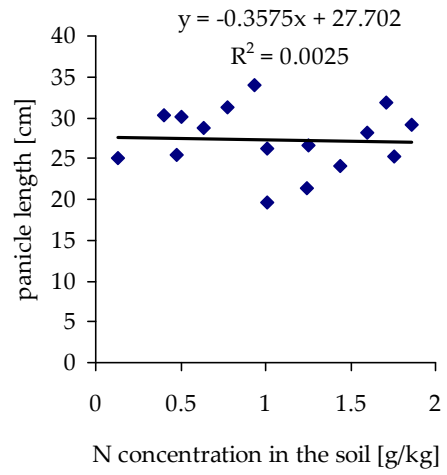


(c)

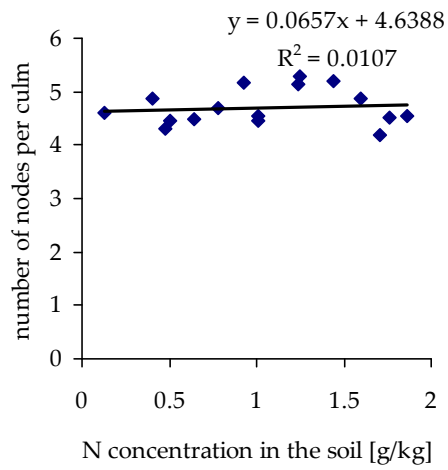
Figure S1. Relationship between: **(a)** the concentration of N in the straw [% dry matter] and N concentration in the soil ($p < 0.05$; $r = 0.37$); **(b)** the concentration of P in the straw [% DM] and P concentration in the soil ($p < 0.05$; $r = -0.15$), and **(c)** the concentration of K in the straw [% DM] and K concentration in the soil ($p < 0.05$; $r = -0.13$).



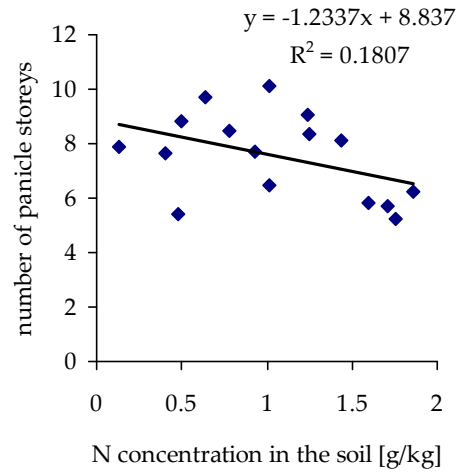
(a)



(b)

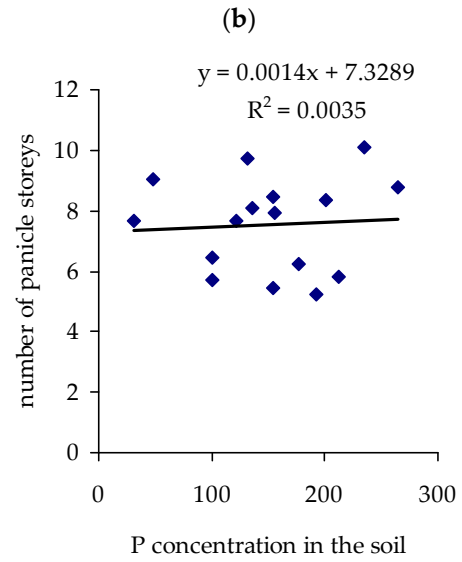
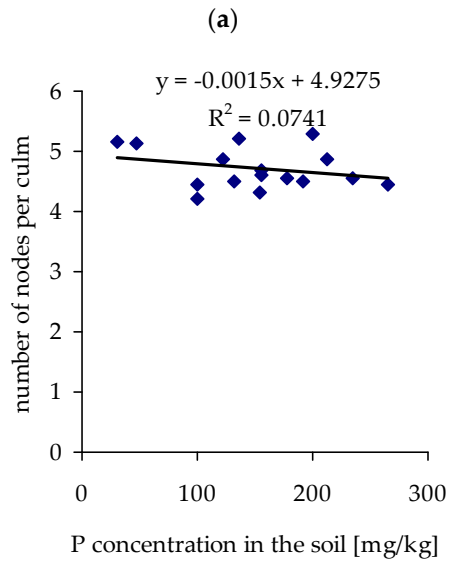
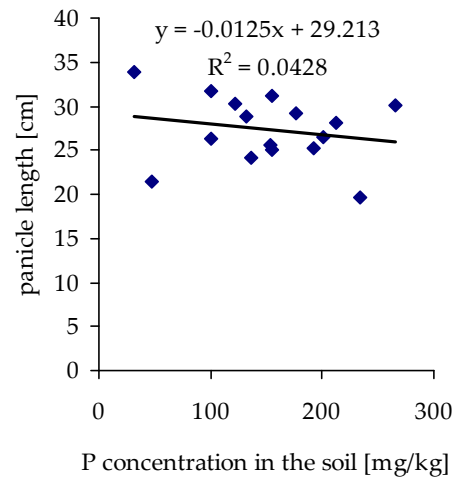
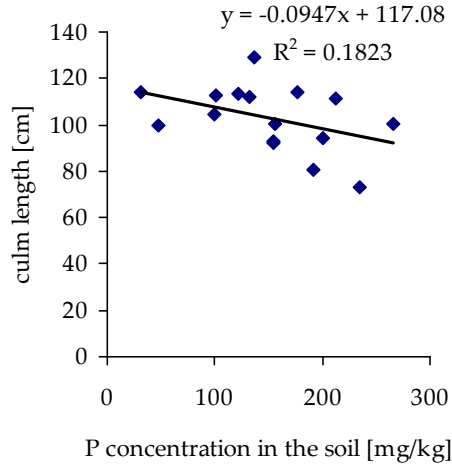


(c)



(d)

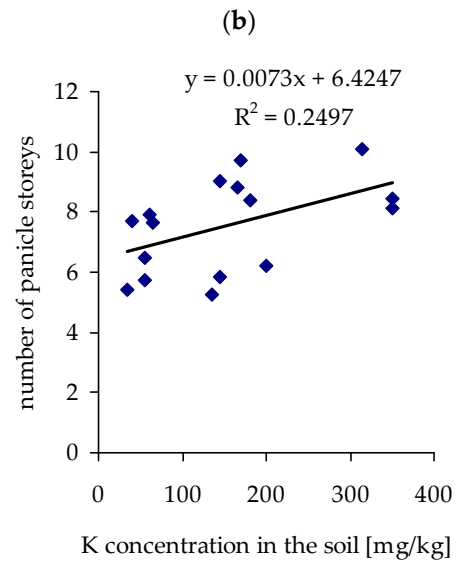
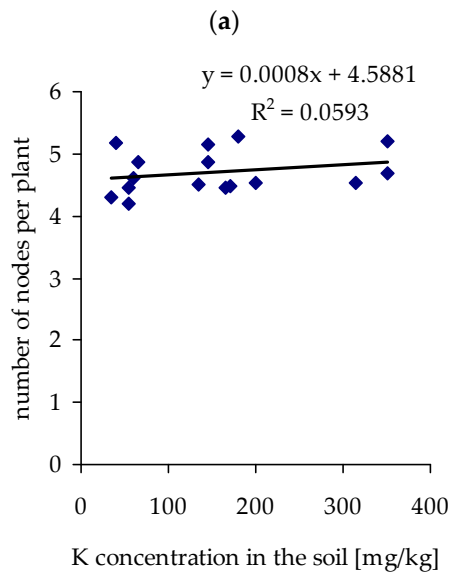
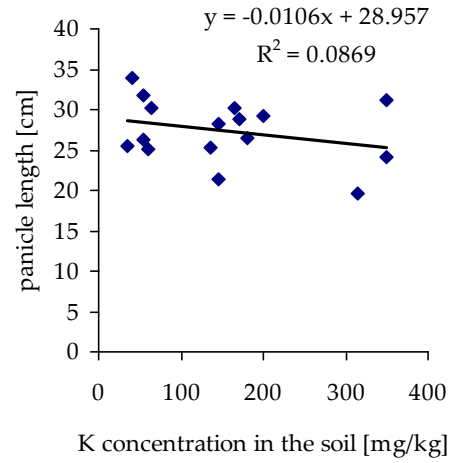
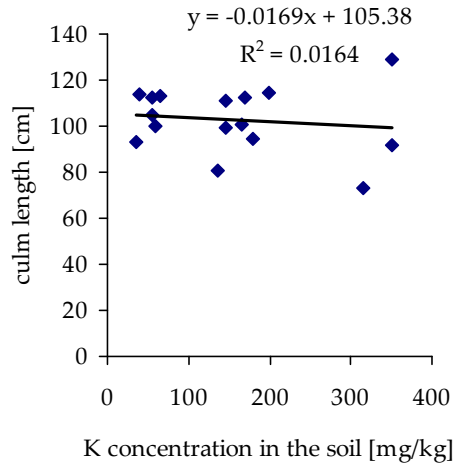
Figure S2. Relationship between the N concentration in the soil and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = 0.12$), **(b)** panicle length ($p < 0.05$; $r = -0.05$), **(c)** number of nodes per culm ($p < 0.05$; $r = 0.10$), and **(d)** number of panicle storeys ($p < 0.05$; $r = -0.43$).



(c)

(d)

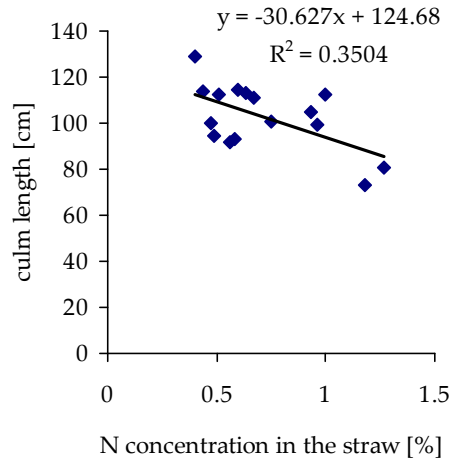
Figure S.3 Relationship between the P concentration in the soil and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = -0.43$), **(b)** panicle length ($p < 0.05$; $r = -0.21$), **(c)** number of nodes per culm ($p < 0.05$; $r = -0.27$), and **(d)** number of panicle storeys ($p < 0.05$; $r = 0.06$).



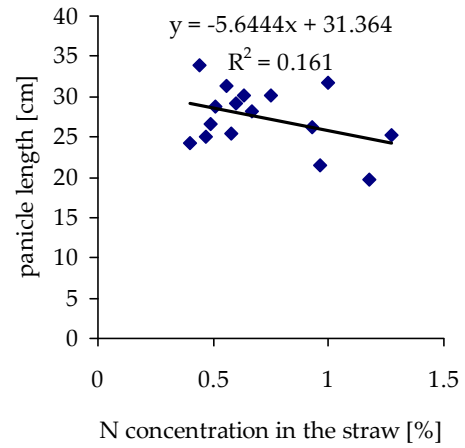
(c)

(d)

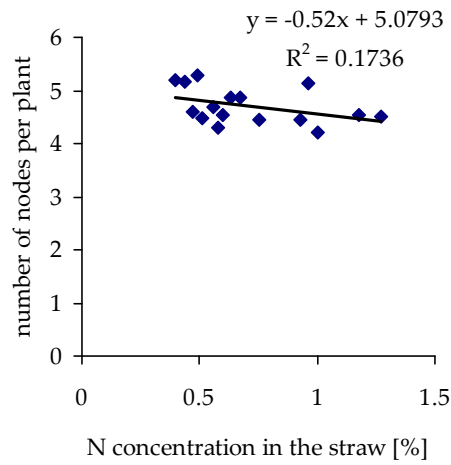
Figure S4 Relationship between the K concentration in the soil and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = -0.13$), **(b)** panicle length ($p < 0.05$; $r = -0.29$), **(c)** number of nodes per culm ($p < 0.05$; $r = 0.24$), and **(d)** number of panicle storeys ($p < 0.05$; $r = 0.50$).



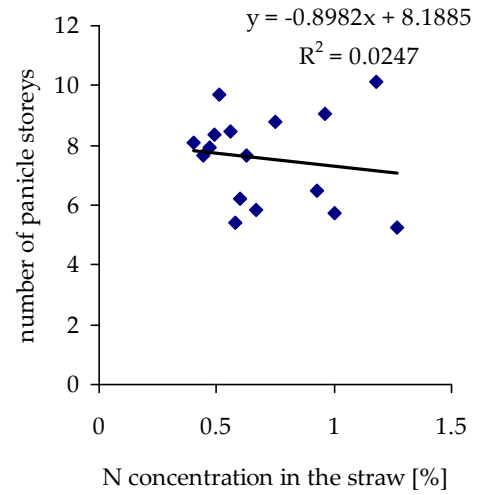
(a)



(b)

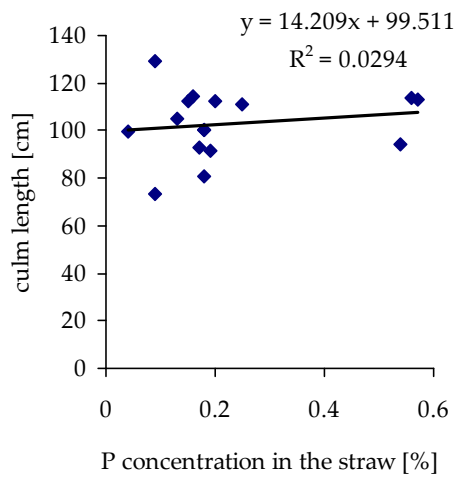


(c)

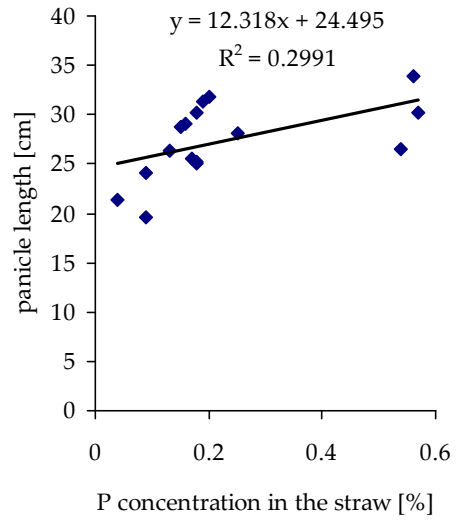


(d)

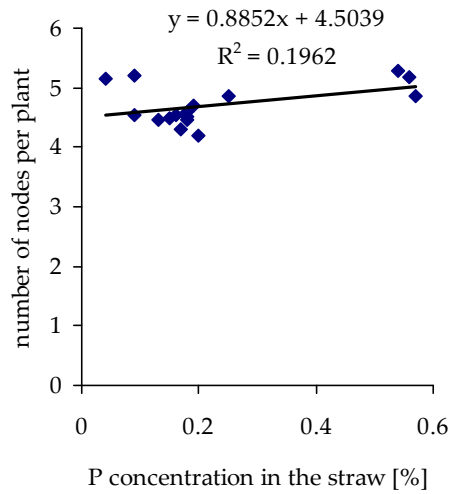
Figure S5. Relationship between the N concentration in the straw [% dry matter] and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = -0.59$), **(b)** panicle length ($p < 0.05$; $r = -0.40$), **(c)** number of nodes per culm ($p < 0.05$; $r = -0.42$), and **(d)** number of panicle storeys ($p < 0.05$; $r = -0.16$).



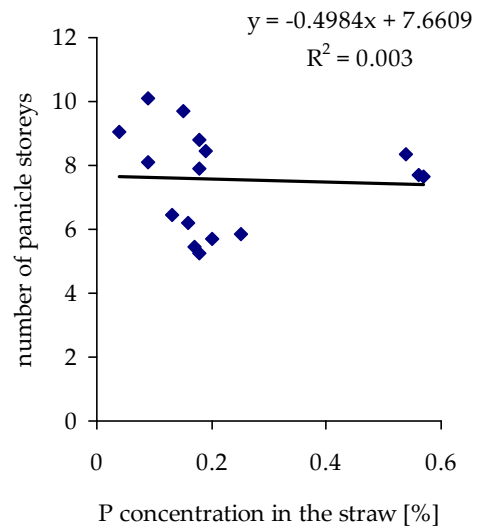
(a)



(b)

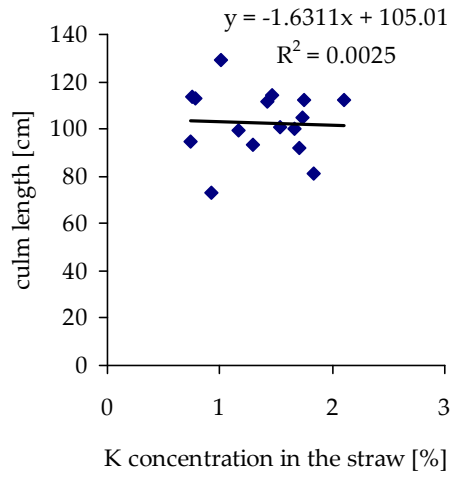


(c)

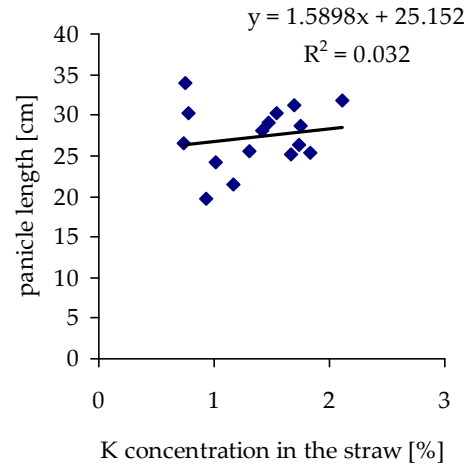


(d)

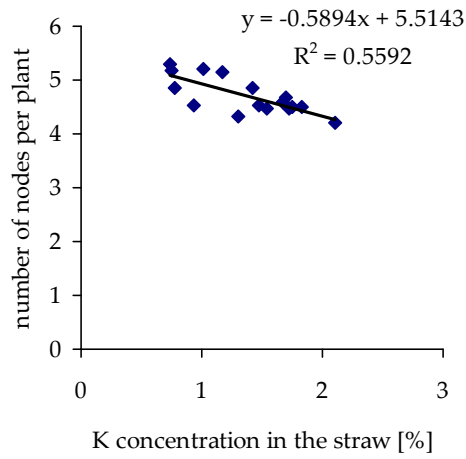
Figure S6. Relationship between the P concentration in the straw [% dry matter] and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = 0.17$), **(b)** panicle length ($p < 0.05$; $r = 0.55$), **(c)** number of nodes per culm ($p < 0.05$; $r = 0.44$), and **(d)** number of panicle storeys ($p < 0.05$; $r = -0.05$).



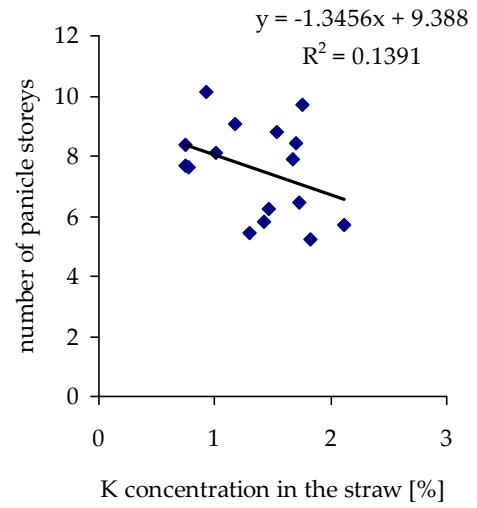
(a)



(b)

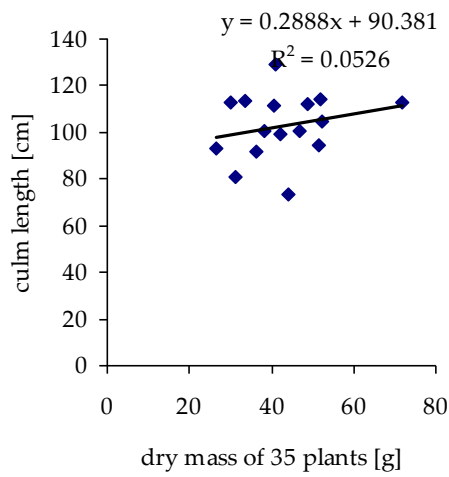


(c)

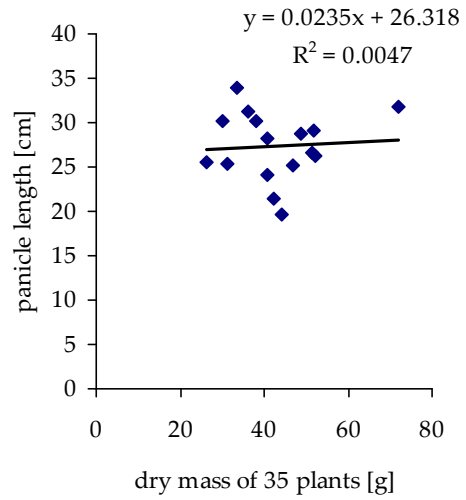


(d)

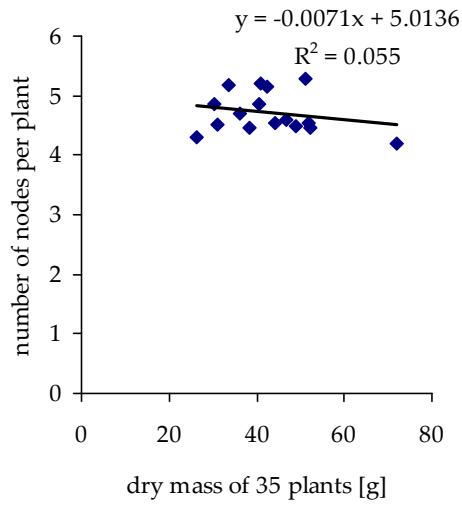
Figure S7. Relationship between the K concentration in the straw [% dry matter] and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = -0.05$), **(b)** panicle length ($p < 0.05$; $r = 0.18$), **(c)** number of nodes per culm ($p < 0.05$; $r = -0.75$), and **(d)** number of panicle storeys ($p < 0.05$; $r = -0.37$).



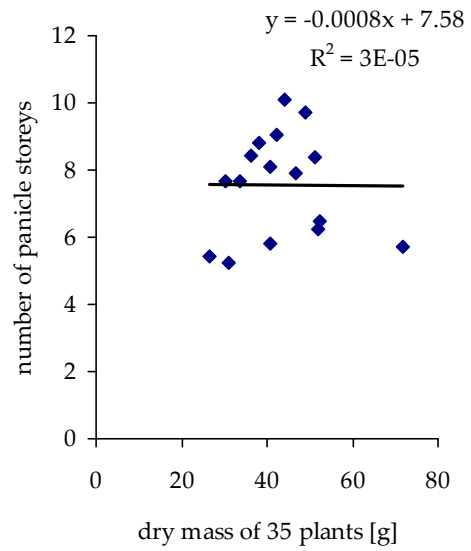
(a)



(b)

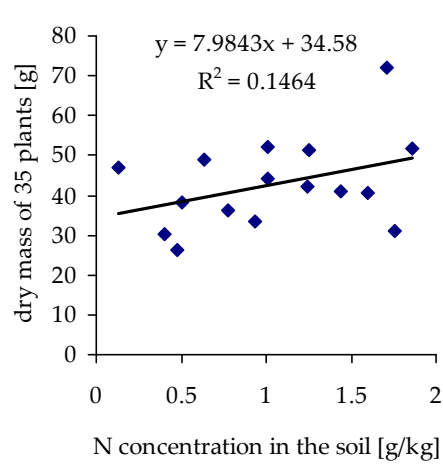


(c)

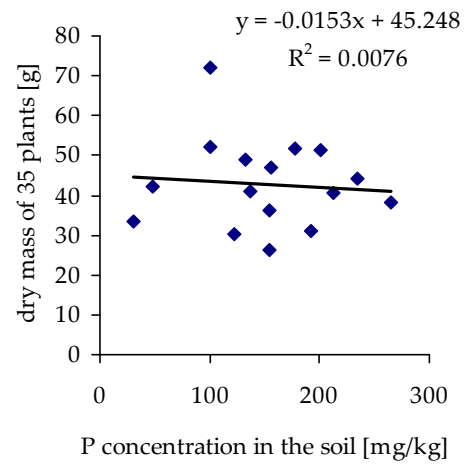


(d)

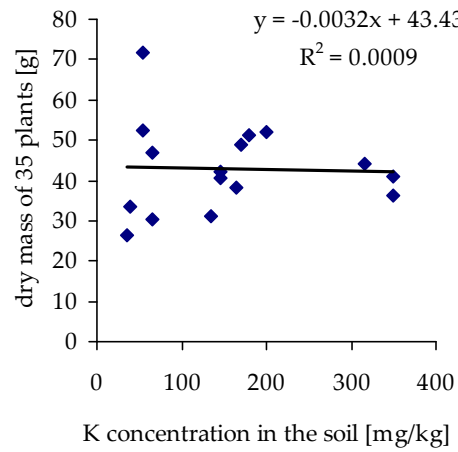
Figure S8. Relationship between the dry mass of 35 plants of *A. spica-venti* and selected morphological features of *A. spica-venti*: (a) culm length ($p < 0.05$; $r = 0.23$), (b) panicle length ($p < 0.05$; $r = 0.07$), (c) number of nodes per culm ($p < 0.05$; $r = -0.23$), and (d) number of panicle storeys ($p < 0.05$; $r = -0.01$).



(a)



(b)



(c)

Figure S9. Relationship between the dry mass of 35 plants of *A. spica-venti* and the concentration of N, P, K in the soil: **(a)** N ($p < 0.05$; $r = 0.38$); **(b)** P ($p < 0.05$; $r = -0.08$), and **(c)** K ($p < 0.05$; $r = -0.03$).

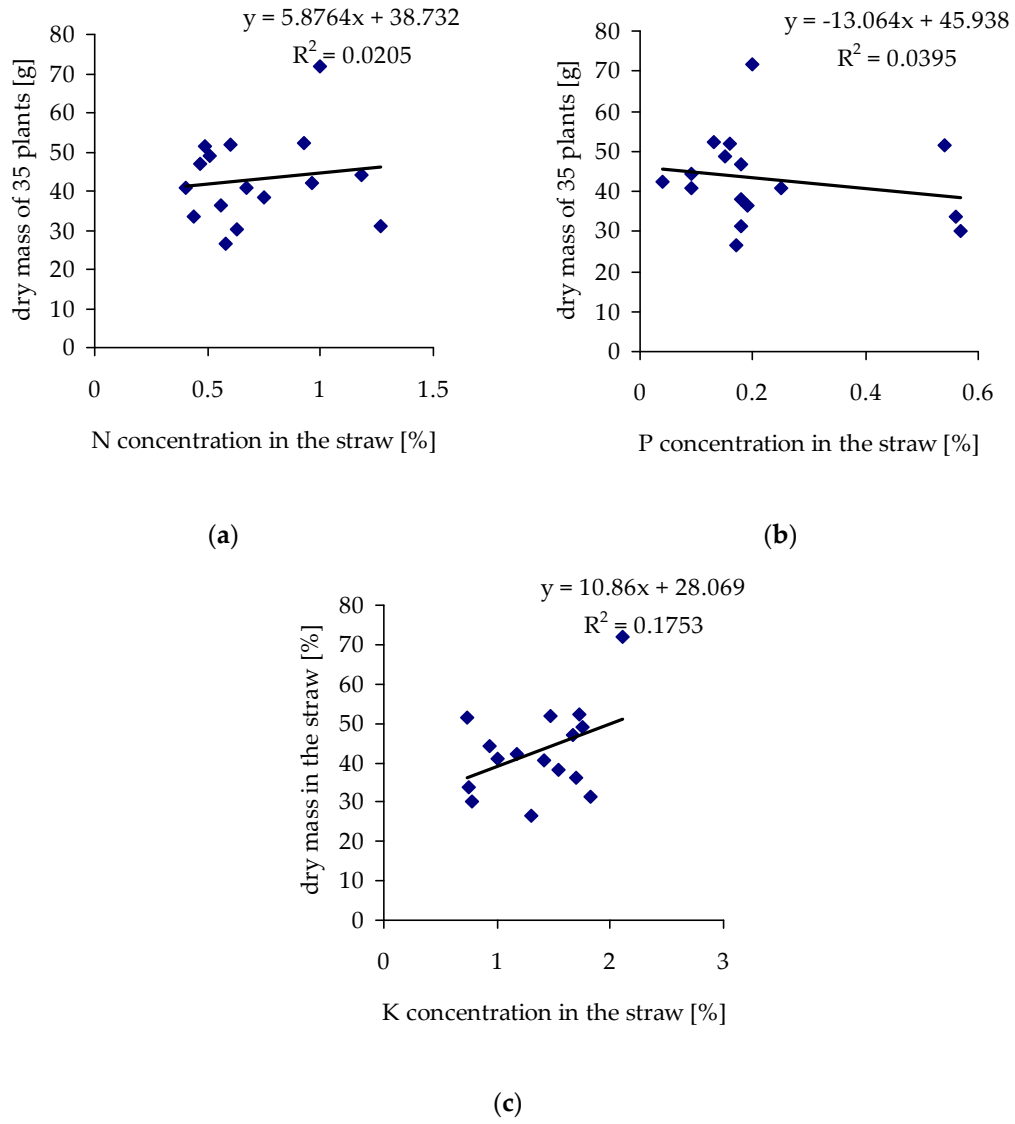
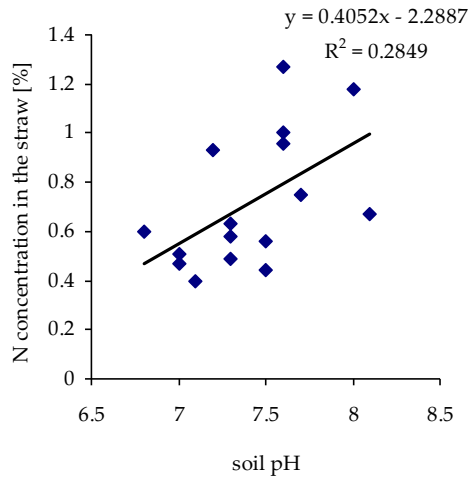
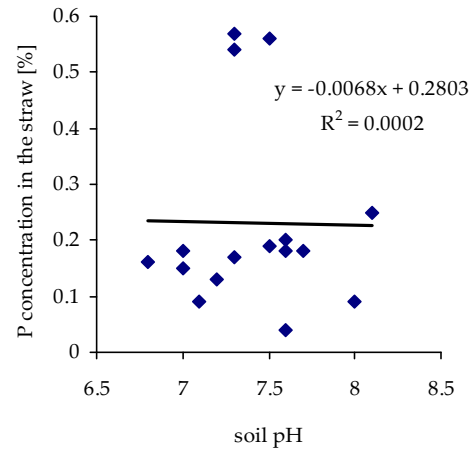


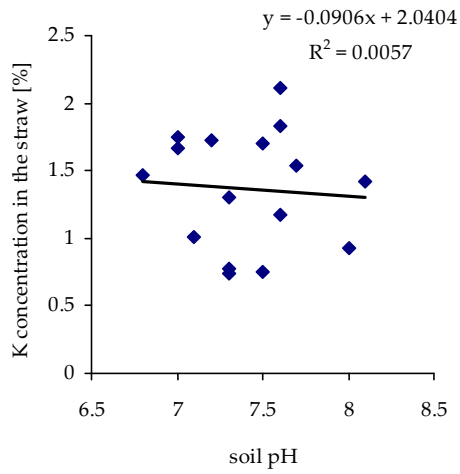
Figure S10. Relationship between the dry mass of 35 plants of *A. spica-venti* and the concentration of N, P, K in the straw [% dry matter]: **(a)** N ($p < 0.05$; $r = 0.14$); **(b)** P ($p < 0.05$; $r = -0.20$), and **(c)** K ($p < 0.05$; $r = 0.42$).



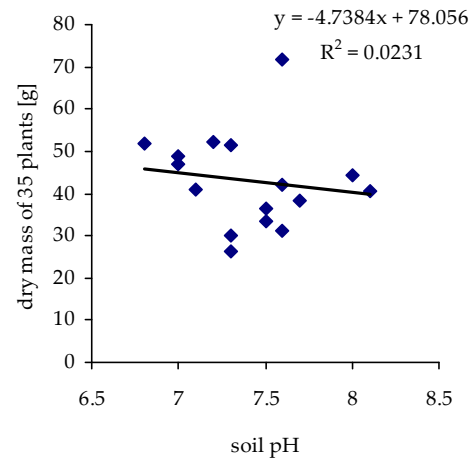
(a)



(b)

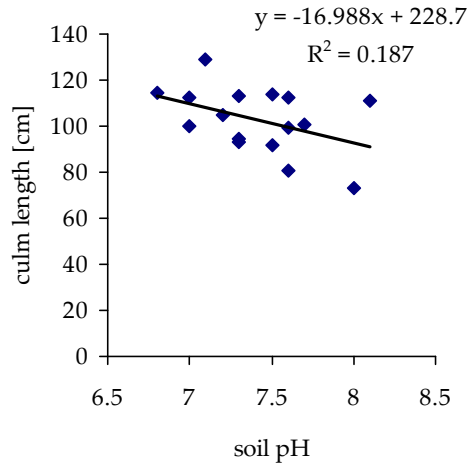


(c)

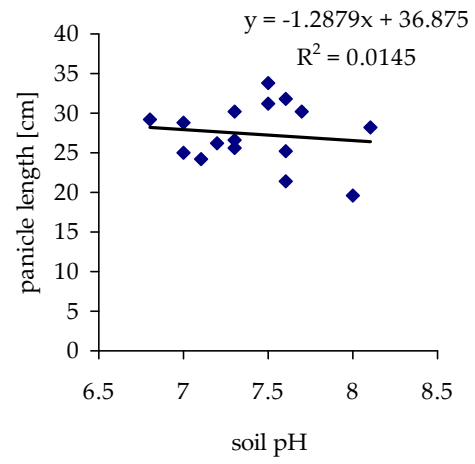


(d)

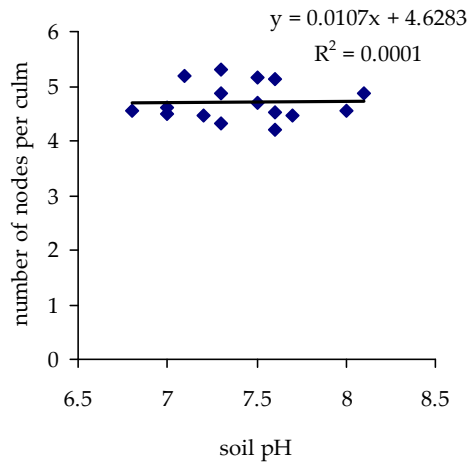
Figure S11. Relationship between the soil pH and the concentration of N, P, K in the straw [% dry matter] and dry mass of 35 plants: **(a)** N ($p < 0.05$; $r = 0.53$); **(b)** P ($p < 0.05$; $r = -0.01$), **(c)** K ($p < 0.05$; $r = -0.08$), and **(d)** mass of 35 plants ($p < 0.05$; $r = -0.15$).



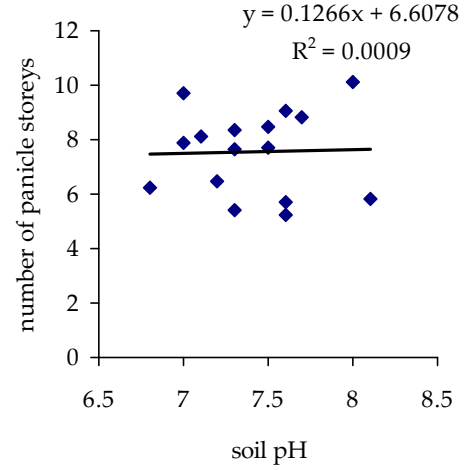
(a)



(b)



(c)



(d)

Figure S12. Relationship between the soil pH and selected morphological features of *A. spica-venti*: **(a)** culm length ($p < 0.05$; $r = -0.43$), **(b)** panicle length ($p < 0.05$; $r = -0.12$), **(c)** number of nodes per culm ($p < 0.05$; $r = 0.01$), and **(d)** number of panicle storeys ($p < 0.05$; $r = 0.03$).