

Appendix 6

Root and Shoot Weight Analyses of Gerbera

Table A6.1. Confidence intervals [c. i.] (95%) and means calculated from one-way analysis of variance of root weight for gerbera plants used in single strain *Phytophthora* pathogenicity tests. This analysis was performed only on treatments having mortality p-values that were greater than 0.05 at termination of pathogenicity tests when fresh root weights of asymptomatic plants remaining at termination of experiments were recorded.

Strain	Zoospore concentration per plant	Lower 95% c.i. (gm)	Upper 95% c. i. (gm)	Mean (gm)
<i>P. cactorum</i> (65)	10 K ^a	0.3	0.7	0.5
Control		0.3	0.7	0.5
<i>P. cactorum</i> (65)	5 K ^a	0.3	0.9	0.6
Control		0.2	0.8	0.5
<i>P. cactorum</i> (65)	2.5 K ^a	0.3	0.7	0.5
Control		0.3	0.7	0.5
<i>P. cactorum</i> (65)	10 K ^b	0.8	1.5	1.2
Control		0.8	1.5	1.2
<i>P. cactorum</i> (65)	5 K ^b	0.8	1.5	1.1
Control		0.8	1.5	1.2
<i>P. cactorum</i> (65)	2.5 K ^b	0.5	1.2	0.9
Control		0.8	1.5	1.2
<i>P. capsici</i> (279)	10 K ^a	0.7	1.5	1.1
Control		0.8	1.5	1.2
<i>P. capsici</i> (279)	5 K ^a	0.8	1.4	1.1
Control		0.8	1.5	1.2
<i>P. capsici</i> (279)	2.5 K ^a	1.0	1.6	1.3
Control		0.8	1.5	1.2
<i>P. capsici</i> (279)	10 K ^b	0.6	2.0	1.3
Control		0.6	2.0	1.3
<i>P. capsici</i> (279)	5 K ^b	0.8	2.1	1.5
Control		0.7	1.9	1.3
<i>P. capsici</i> (279)	2.5 K ^b	1.2	2.5	1.8
Control		0.7	2.0	1.3
<i>P. citrophthora</i> (288)	10 K ^a	0.8	1.5	1.2
Control		0.8	1.5	1.2
<i>P. citrophthora</i> (288)	5 K ^a	0.7	1.4	1.1
Control		0.8	1.5	1.2
<i>P. citrophthora</i> (288)	2.5 K ^a	0.8	1.4	1.1
Control		0.9	1.4	1.2
<i>P. citrophthora</i> (288)	10 K ^b	0.7	2.2	1.4
Control		0.6	2.0	1.3
<i>P. citrophthora</i> (288)	5 K ^b	0.5	1.6	1.1
Control		0.7	1.9	1.3

<i>P. citrophthora</i> (288)	2.5 K ^b	0.4	2.4	1.4
Control		0.3	2.3	1.3
<i>P. citrophthora</i> (67)	10 K ^a	0.8	1.4	1.1
Control		0.8	1.5	1.2
<i>P. citrophthora</i> (67)	5 K ^a	0.8	1.5	1.2
Control		0.8	1.5	1.2
<i>P. citrophthora</i> (67)	2.5 K ^a	0.8	1.5	1.2
Control		0.8	1.5	1.2
<i>P. citrophthora</i> (67)	10 K ^b	0.5	1.9	1.2
Control		0.7	2.0	1.3
<i>P. citrophthora</i> (67)	5 K ^b	0.6	1.8	1.2
Control		0.8	1.9	1.3
<i>P. citrophthora</i> (67)	2.5 K ^b	0.8	2.6	1.7
Control		0.5	2.1	1.3
<i>P. cryptogea</i> (139)	10 K ^a	1.4	3.0	2.2
Control		1.4	3.1	2.3
<i>P. cryptogea</i> (139)	5 K ^a	1.2	3.0	2.1
Control		1.4	3.2	2.3
<i>P. cryptogea</i> (139)	2.5 K ^a	1.5	3.7	2.6
Control		1.2	3.4	2.3
<i>P. cryptogea</i> (139)	10 K ^b	0.2	0.8	0.5
Control		0.0	0.6	0.3
<i>P. cryptogea</i> (139)	5 K ^b	0.3	0.7	0.5
Control		0.1	0.6	0.3
<i>P. cryptogea</i> (139)	2.5 K ^b	0.3	0.7	0.5
Control		0.1	0.5	0.3
<i>P. drechsleri</i> (179)	10 K ^a	1.7	3.4	2.6
Control		1.4	3.1	2.3
<i>P. drechsleri</i> (179)	5 K ^a	1.1	2.8	2.0
Control		1.5	3.1	2.3
<i>P. drechsleri</i> (179)	2.5 K ^a	1.2	3.1	2.1
Control		1.3	3.2	2.3
<i>P. drechsleri</i> (179)	10 K ^b	0.3	0.6	0.4
Control		0.2	0.5	0.3
<i>P. drechsleri</i> (179)	5 K ^b	0.2	0.5	0.4
Control		0.2	0.5	0.3
<i>P. drechsleri</i> (179)	2.5 K ^b	0.2	0.7	0.5
Control		0.1	0.6	0.3
<i>P. nicotianae</i> (100)	10 K ^a	0.3	0.7	0.5
Control		0.2	0.8	0.5
<i>P. nicotianae</i> (100)	5 K ^a	0.3	0.8	0.6
Control		0.3	0.7	0.5
<i>P. nicotianae</i> (100)	2.5 K ^a	0.3	0.7	0.5
Control		0.3	0.7	0.5
<i>P. nicotianae</i> (100)	10 K ^b	0.3	2.3	1.3
Control		0.3	2.3	1.3
<i>P. nicotianae</i> (100)	5 K ^b	0.4	1.7	1.1
Control		0.7	1.9	1.3
<i>P. nicotianae</i> (100)	2.5 K ^b	0.5	1.7	1.1
Control		0.7	1.9	1.3

^a Experiment I

^b Experiment II

Table A6.2. Confidence intervals [c. i.] (95%) and means calculated from one-way analysis of variance of shoot weight for sage plants used in single strain *Phytophthora* pathogenicity tests. This analysis was performed only on treatments having mortality p-values that were greater than 0.05 at termination of pathogenicity tests when fresh shoot weights of asymptomatic plants remaining at termination of experiments were recorded.

Strain	Zoospore concentration per plant	Lower 95% c.i. (gm)	Upper 95% c. i. (gm)	Mean (gm)
<i>P. cactorum</i> (65)	10 K ^a	1.1	2.1	1.6
Control		1.3	2.3	1.8
<i>P. cactorum</i> (65)	5 K ^a	1.2	2.4	1.8
Control		1.2	2.4	1.8
<i>P. cactorum</i> (65)	2.5 K ^a	1.1	2.1	1.6
Control		1.3	2.3	1.8
<i>P. cactorum</i> (65)	10 K ^b	1.6	2.9	2.2
Control		1.3	2.5	1.9
<i>P. cactorum</i> (65)	5 K ^b	1.3	2.2	1.8
Control		1.4	2.4	1.9
<i>P. cactorum</i> (65)	2.5 K ^b	0.8	2.1	1.4
Control		1.3	2.6	1.9
<i>P. capsici</i> (279)	10 K ^a	1.2	2.5	1.9
Control		1.3	2.6	1.9
<i>P. capsici</i> (279)	5 K ^a	1.4	2.3	1.9
Control		1.4	2.4	1.9
<i>P. capsici</i> (279)	2.5 K ^a	1.5	2.5	2.0
Control		1.4	2.5	1.9
<i>P. capsici</i> (279)	10 K ^b	1.2	3.9	2.5
Control		1.7	4.4	3.1
<i>P. capsici</i> (279)	5 K ^b	1.7	4.1	2.9
Control		1.9	4.2	3.1
<i>P. capsici</i> (279)	2.5 K ^b	2.0	4.4	3.2
Control		1.8	4.3	3.1
<i>P. citrophthora</i> (288)	10 K ^a	1.4	2.5	1.9
Control		1.3	2.5	1.9
<i>P. citrophthora</i> (288)	5 K ^a	1.2	2.4	1.8
Control		1.3	2.6	1.9
<i>P. citrophthora</i> (288)	2.5 K ^a	1.5	2.5	2.0
Control		1.4	2.5	1.9
<i>P. citrophthora</i> (288)	10 K ^b	1.2	3.4	2.3
Control		1.9	4.2	3.1
<i>P. citrophthora</i> (288)	5 K ^b	1.1	3.4	2.3
Control		1.9	4.2	3.1
<i>P. citrophthora</i> (288)	2.5 K ^b	0.5	2.8	1.6
Control		1.9	4.2	3.1 ^c
<i>P. citrophthora</i> (67)	10 K ^a	1.4	2.5	2.0
Control		1.4	2.5	1.9
<i>P. citrophthora</i> (67)	5 K ^a	1.6	2.6	2.1

Control		1.4	2.5	1.9
<i>P. citrophthora</i> (67)	2.5 K ^a	1.4	2.3	1.8
Control		1.4	2.4	1.9
<i>P. citrophthora</i> (67)	10 K ^b	1.3	3.8	2.5
Control		1.9	4.2	3.1
<i>P. citrophthora</i> (67)	5 K ^b	1.4	4.1	2.8
Control		1.8	4.3	3.1
<i>P. citrophthora</i> (67)	2.5 K ^b	1.6	4.4	3.0
Control		1.7	4.4	3.1
<i>P. nicotianae</i> (100)	10 K ^a	0.7	1.9	1.3
Control		1.1	2.4	1.8
<i>P. nicotianae</i> (100)	5 K ^a	1.1	2.3	1.7
Control		1.2	2.4	1.8
<i>P. nicotianae</i> (100)	2.5 K ^a	0.9	2.0	1.4
Control		1.3	2.3	1.8
<i>P. nicotianae</i> (100)	10 K ^b	0.5	2.5	1.5
Control		2.0	4.1	3.1 ^c
<i>P. nicotianae</i> (100)	5 K ^b	0.9	3.9	2.4
Control		1.6	4.5	3.1
<i>P. nicotianae</i> (100)	2.5 K ^b	0.8	2.9	1.9
Control		2.0	4.1	3.1
<i>P. cryptogea</i> (139)	10 K ^a	3.4	5.6	4.5
Control		2.9	5.1	4.0
<i>P. cryptogea</i> (139)	5 K ^a	2.2	4.6	3.4
Control		2.8	5.2	4.0
<i>P. cryptogea</i> (139)	2.5 K ^a	2.8	5.7	4.2
Control		2.5	5.5	4.0
<i>P. cryptogea</i> (139)	10 K ^b	0.4	1.1	0.7
Control		0.1	0.8	0.5
<i>P. cryptogea</i> (139)	5 K ^b	0.2	1.1	0.6
Control		0.0	1.0	0.5
<i>P. cryptogea</i> (139)	2.5 K ^b	0.5	1.1	0.8
Control		0.1	0.8	0.5
<i>P. drechsleri</i> (179)	10 K ^a	3.2	5.6	4.4
Control		2.8	5.2	4.0
<i>P. drechsleri</i> (179)	5 K ^a	2.5	5.0	3.8
Control		2.8	5.2	4.0
<i>P. drechsleri</i> (179)	2.5 K ^a	2.4	5.1	3.8
Control		2.7	5.3	4.0
<i>P. drechsleri</i> (179)	10 K ^b	0.3	0.9	0.6
Control		0.1	0.8	0.5
<i>P. drechsleri</i> (179)	5 K ^b	0.5	1.2	0.9 ^c
Control		0.2	0.8	0.5
<i>P. drechsleri</i> (179)	2.5 K ^b	0.4	1.6	1.0
Control		0.0	1.1	0.5

^a Experiment I

^b Experiment II

^c The mean is significant at $P=0.05$ using Each Pair Student's t test when compared to the non-inoculated control.