

Table 9. Rhizosphere fungal total counts $\times 10^3$ (CFU per g soil) isolated on potato dextrose agar medium at $28 \pm 1^\circ\text{C}$ (Total diversity (0.873 \pm 0.01), diversity among samples (0.127), diversity within samples (0.780) and % similarity among communities (89.3%))

Fungal species	Sprinkler irrigation							Drip irrigation							Total
	Faba bean	Faba bean + garlic	Faba bean + fennel	Faba bean + onion	Onion	Garlic	Fennel	Faba bean	Faba bean + garlic	Faba bean + fennel	Faba bean + onion	Onion	Garlic	Fennel	
<i>Absidia cylindrospora</i>	0	0	0	0	1	0	0	0	5	0	0	0	0	0	6
<i>Alternaria alternate</i>	0	0	0	3	0	0	0	0	0	0	0	0	5	6	14
<i>Aspergillus fumigatus</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Aspergillus flavus</i>	0	0	0	0	1	0	1	0	3	0	0	2	0	10	17
<i>Aspergillus niger</i>	1	2	5	1	1	2	8	3	5	5	4	5	5	5	52
<i>Aspergillus terreus</i>	0	0	0	0	0	0	0	1	0	1	0	4	0	0	6
<i>Cladosporium cladosporioides</i>	0	0	0	0	0	0	0	0	11	0	0	0	0	0	11
<i>Cochliobolus specifer</i>	1	0	1	0	1	0	0	2	1	0	0	6	1	3	16
<i>Emericella nidulans</i> var. <i>nidulans</i>	0	2	3	2	0	0	0	0	0	1	0	0	0	0	8
<i>Epicoccum nigrum</i>	0	1	0	0	0	0	0	0	2	0	0	0	0	0	3
<i>Eurotium repens</i>	0	0	0	0	2	0	0	1	0	0	0	0	1	0	4
<i>Fusarium culmorum</i>	0	0	2	2	0	0	0	0	0	0	1	0	0	0	5
<i>Fusarium lateritium</i>	0	0	0	1	0	0	5	0	0	0	1	0	0	0	7
<i>Fusarium nygamia</i>	0	1	0	0	0	0	0	0	0	0	10	0	0	0	11
<i>Fusarium solani</i>	2	4	4	0	5	5	5	8	1	23	0	5	1	9	72
<i>Penicillium chrysogenum</i>	0	0	0	0	0	0	1	1	0	0	3	0	1	8	14
<i>Penicillium corylophilum</i>	0	0	4	0	0	0	0	0	0	0	0	0	0	0	4
<i>Rhizopus stolonifer</i>	5	3	1	5	0	0	5	5	1	5	5	5	0	5	45
N $\times 10^3$	9	13	20	14	11	7	26	21	29	35	24	27	14	46	296
Species Richness (S)	4	6	7	6	6	2	7	7	8	5	6	6	6	7	18
Standard deviation	0.131	0.045	0.028	0.057	0.102	0.146	0.032	0.056	0.048	0.086	0.055	0.014	0.069	0.014	0.01
Simpson diversity index (D_s)	0.694	0.859	0.863	0.835	0.800	0.476	0.822	0.800	0.805	0.541	0.768	0.852	0.780	0.858	0.873
Shannon–Wiener index (H')	1.149	1.672	1.805	1.631	1.540	0.598	1.690	1.646	1.741	1.035	1.515	1.747	1.489	1.881	2.386
Pielou index (J)	0.553	0.804	0.868	0.784	0.741	0.288	0.813	0.792	0.837	0.498	0.729	0.840	0.716	0.905	1.147

Table 10. Phyllosphere fungal total counts $\times 10^3$ (CFU per g fresh leaf) isolated on potato dextrose agar medium at $28 \pm 1^\circ\text{C}$. (Total diversity(0.854 \pm 0.013), diversity among samples (0.160), diversity within samples (0.735) and % similarity among communities (86.1%))

Fungal species	Sprinkler irrigation							Drip irrigation							Total
	Faba bean	Faba bean + garlic	Faba bean + fennel	Faba bean + onion	Onion	Garlic	Fennel	Faba bean	Faba bean + garlic	Faba bean + fennel	Faba bean + onion	Onion	Garlic	Fennel	
<i>Absidia cylindrospora</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
<i>Alternaria alternata</i>	0	0	0	0	0	0	0	0	0	0	0	1	7	2	10
<i>Alternaria chlamydospora</i>	0	1	0	0	0	11	0	0	0	0	0	0	0	0	12
<i>Aspergillus fumigatus</i>	2	1	3	0	5	0	0	0	0	0	0	2	0	0	13
<i>Aspergillus flavus</i>	1	4	0	0	2	0	1	0	2	0	6	5	1	9	31
<i>Aspergillus niger</i>	14	4	1	4	7	4	9	5	2	5	1	4	3	1	64
<i>Aspergillus ochraceus</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
<i>Aspergillus terreus</i>	0	0	0	1	0	0	0	0	0	1	5	1	0	0	8
<i>Cladosporium cladosporioides</i>	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
<i>Cochliobolus specifer</i>	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
<i>Epicoccum nigrum</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
<i>Eurotium repens</i>	0	0	0	2	3	0	0	0	0	0	0	1	0	0	6
<i>Fusarium nygamia</i>	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
<i>Fusarium solani</i>	0	1	6	0	0	0	0	3	0	2	0	0	3	0	15
<i>Penicillium chrysogenum</i>	1	1	0	0	0	0	0	0	0	1	1	0	0	2	6
<i>Penicillium corylophilum</i>	0	0	0	0	3	2	0	0	0	0	0	0	0	1	6
<i>Rhizopus stolonifer</i>	5	0	5	5	0	0	5	5	5	5	5	0	0	5	45
<i>Trichoderma harzianum</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
N $\times 10^3$	23	12	15	12	24	18	15	17	9	18	18	14	15	20	230
Species Richness (S)	5	6	4	4	7	4	3	5	3	6	5	6	5	6	18
Standard deviation	0.096	0.068	0.051	0.065	0.034	0.104	0.085	0.035	0.110	0.037	0.038	0.061	0.080	0.071	0.013
Simpson diversity index (D_s)	0.597	0.818	0.733	0.742	0.855	0.595	0.562	0.809	0.667	0.824	0.771	0.813	0.743	0.747	0.854
Shannon–Wiener index (H')	1.119	1.561	1.235	1.237	1.827	1.040	0.853	1.499	0.995	1.611	1.399	1.569	1.361	1.466	2.259
Pielou index (J)	0.538	0.751	0.594	0.595	0.879	0.500	0.410	0.721	0.479	0.775	0.673	0.755	0.654	0.705	1.086