

Supplementary Materials

Changes in the Soil–Plant–Water System Due to Biochar Amendment

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Table S1. Pearson correlation analysis (r) and p -value (p) between the investigated plant parameters for both investigated years (2017 and 2018) separately and together. C represents control, BC the biochar amended treatments, 17 and 18 are the years of 2017 and 2018, respectively. Correlation is significant at the $p < 0.05$ level.

$r \setminus p$	Height C	Height BC	Height C17	Height BC17	Height C18	Height BC18	Crop C	Crop BC	Crop C17	Crop BC17	Crop C18	Crop BC18	Root C	Root BC	Root C17	Root BC17	Root C18	Root BC18	Leaf C	Leaf BC	Stem C	Stem BC	Tassel C	Tassel BC
HeightC	0.78	1.00	-0.02	-0.20	-0.17	0.45	0.57	0.05	-0.02	0.06	-0.20	0.43	-0.06	0.13	-0.10	-0.06	0.40	-0.29	0.12	0.62	0.61	0.62	0.10	
HeightBC	0.000		-0.19	1.00	-0.28	-0.06	0.42	0.55	0.07	0.20	-0.06	-0.27	0.37	-0.11	0.04	-0.15	0.23	0.50	0.89	0.43	-0.49	-0.41	-0.07	0.74
HeightC17	0.000	0.214		-0.19	0.08	0.05	-0.07	0.01	0.05	-0.02	0.01	-0.15	0.18	0.24	0.18	0.24	-0.06	-0.29	-0.29	0.12	0.62	0.61	0.62	0.10
HeightBC17	0.899	0.000	0.214		-0.16	0.01	0.26	0.35	0.07	0.20	-0.03	-0.27	0.04	0.03	0.04	0.03	0.23	0.16	0.89	0.43	-0.49	-0.41	-0.07	0.74
HeightC18	0.143	0.036	0.608	0.297		-0.15	-0.10	-0.24	0.09	0.03	-0.12	0.04	0.00	0.05	0.08	0.06	-0.10	-0.16	0.59	-0.47	0.15	0.29	0.64	-0.04
HeightBC18	0.250	0.675	0.760	0.950	0.299		-0.22	0.06	-0.10	0.25	-0.31	0.08	-0.01	-0.05	-0.02	-0.05	-0.10	-0.12	-0.68	-0.41	0.27	0.34	-0.44	-0.56
FruitC	0.000	0.000	0.657	0.074	0.463	0.131		0.44	1.00	0.28	0.05	-0.10	0.23	-0.14	-0.15	-0.19	0.02	0.13	-0.04	-0.66	-0.83	-0.76	-0.58	-0.19
FruitBC	0.000	0.000	0.943	0.014	0.075	0.685	0.000		0.29	1.00	0.05	-0.02	0.38	-0.20	0.21	-0.09	0.27	0.53	-0.11	-0.84	-0.53	-0.41	-0.40	-0.33
FruitC17	0.737	0.677	0.737	0.677	0.565	0.525	0.000	0.069		0.29	-0.08	0.09	-0.20	0.06	-0.20	0.06	-0.25	-0.17	-0.04	-0.66	-0.83	-0.76	-0.58	-0.19
FruitBC17	0.896	0.206	0.896	0.206	0.848	0.112	0.073	0.000	0.069		-0.03	0.14	0.15	0.17	0.15	0.17	0.06	0.29	-0.11	-0.84	-0.53	-0.41	-0.40	-0.33
FruitC18	0.659	0.664	0.933	0.839	0.391	0.031	0.712	0.704	0.613	0.856		0.18	0.19	0.05	0.22	0.06	0.24	0.02	-0.31	0.80	0.66	0.65	-0.01	0.19
FruitBC18	0.191	0.072	0.324	0.072	0.781	0.595	0.492	0.889	0.595	0.383	0.222		0.00	-0.19	0.00	-0.19	0.04	-0.26	-0.36	-0.01	0.02	0.03	-0.50	-0.58
RootC	0.000	0.000	0.233	0.794	0.980	0.931	0.031	0.000	0.224	0.339	0.176	0.994		0.15	1.00	-0.13	0.20	0.15	0.41	-0.13	0.53	0.22	0.72	0.31
RootBC	0.524	0.282	0.119	0.849	0.719	0.753	0.179	0.067	0.711	0.270	0.716	0.196	0.165		-0.11	1.00	-0.06	-0.26	-0.12	0.76	0.68	0.92	-0.11	0.24
RootC17	0.385	0.799	0.233	0.799	0.583	0.900	0.329	0.171	0.224	0.339	0.145	0.994	0.000	0.469		-0.11	0.20	0.20	0.41	-0.13	0.53	0.22	0.72	0.31
RootBC17	0.487	0.274	0.119	0.849	0.676	0.753	0.175	0.520	0.711	0.270	0.665	0.196	0.366	0.000	0.469		-0.06	-0.23	-0.12	0.76	0.68	0.92	-0.11	0.24
RootC18	0.672	0.124	0.672	0.124	0.513	0.531	0.919	0.075	0.123	0.714	0.113	0.804	0.185	0.699	0.185	0.699		0.25	-0.13	0.03	-0.34	0.02	-0.19	-0.20

RootBC18	0.001	0.000	0.056	0.271	0.250	0.412	0.289	0.000	0.284	0.063	0.867	0.084	0.222	0.037	0.173	0.094	0.091		0.67	-0.03	-0.55	-0.40	0.17	0.37
LeafC	0.576	0.018	0.576	0.018	0.216	0.139	0.937	0.835	0.937	0.835	0.549	0.478	0.422	0.821	0.422	0.821	0.803	0.143		0.44	-0.19	-0.32	0.48	0.90
LeafBC	0.804	0.334	0.804	0.334	0.292	0.361	0.103	0.017	0.103	0.017	0.032	0.975	0.783	0.048	0.783	0.048	0.954	0.952	0.385		0.66	0.52	0.26	0.64
StemC	0.194	0.329	0.194	0.329	0.783	0.609	0.043	0.275	0.043	0.275	0.152	0.972	0.281	0.137	0.281	0.137	0.510	0.261	0.714	0.156		0.88	0.58	0.12
StemBC	0.201	0.417	0.201	0.417	0.571	0.507	0.077	0.417	0.077	0.417	0.162	0.951	0.668	0.009	0.668	0.009	0.966	0.431	0.534	0.290	0.022		0.53	-0.09
TasselC	0.101	0.864	0.101	0.864	0.086	0.279	0.134	0.327	0.134	0.327	0.977	0.204	0.044	0.791	0.044	0.791	0.658	0.682	0.339	0.577	0.228	0.284		0.53
TasselBC	0.826	0.058	0.826	0.058	0.934	0.187	0.688	0.467	0.688	0.467	0.681	0.177	0.499	0.602	0.499	0.602	0.660	0.417	0.015	0.125	0.825	0.858	0.224	