

Table S1 Seasonal comparison of soil enzyme activities between July and November

Treatment	G		NAG		aP	
	t	P	t	P	t	P
CK	-10.40	0.10	-6.36	0.02	-7.18	0.02
N1	-10.45	0.10	-8.71	0.01	-12.58	0.07
N2	-5.40	0.03	-8.92	0.01	-11.71	0.01
N1P	-9.64	0.01	-13.80	0.01	-9.31	0.01
N2P	-20.26	0.00	-6.88	0.03	-34.17	0.00
P	-9.95	0.01	-7.54	0.02	-23.57	0.00

Note: Results are from paired-sample t-test.

Table S2. Seasonal comparison of soil microbial community composition between July and November

Treatment	TotPLFAs		BacPLFAs		FunPLFAs		ActPLFAs		G+PLFAs		G-PLFAs		F/B		G+/G-	
	t	P	t	P	t	P	t	P	t	P	t	P	t	P	t	P
CK	-1.23	0.06	-5.25	0.03	1.39	0.30	-1.45	0.28	-3.47	0.07	-0.55	0.64	-18.77	0.01	-1.80	0.21
N1	-0.68	0.57	-0.97	0.43	1.59	0.25	-2.94	0.09	-1.99	0.186	0.29	1.42	-5.36	0.03	-10.37	0.01
N2	-1.39	0.30	-0.99	0.42	-0.66	0.58	-0.75	0.53	-1.40	0.30	0.81	0.50	-10.58	0.01	-0.85	0.48
N1P	-0.96	0.44	-1.89	0.19	1.57	0.26	-2.42	0.14	-2.55	0.13	0.77	0.52	-3.96	0.06	-0.59	0.62
N2P	-2.75	0.11	-3.51	0.07	24.52	0.01	-3.65	0.07	-3.19	0.09	-1.36	0.31	-13.65	0.05	-1.91	0.197
P	-1.45	0.28	-1.71	0.30	0.038	0.97	-1.61	0.25	-1.87	0.20	-0.89	0.47	-5.11	0.04	-0.97	0.44

Note: Results are from paired-sample *t*-test.