

Table S1 pH over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	pH																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	SE
Levin soil																		
1	6.6	0.01	6.6	0.01	6.6	0.01	6.5	0.01	6.5	0.01	6.5	0.03	6.7	0.01	6.6	0.01	6.6	0.02
5	6.7	0.00	6.7	0.02	6.6	0.01	6.7	0.01	6.8	0.00	6.7	0.03	6.7	0.03	6.6	0.02	6.6	0.02
9	6.4	0.00	6.5	0.02	6.2	0.01	6.5	0.01	6.5	0.01	6.2	0.01	6.4	0.03	6.7	0.01	6.7	0.01
13	6.5	0.00	6.4	0.01	6.1	0.01	6.5	0.00	6.5	0.00	6.1	0.01	6.5	0.00	6.5	0.01	6.1	0.02
21	6.5	0.02	6.5	0.01	6.2	0.03	6.6	0.02	6.5	0.02	6.4	0.07	6.5	0.03	6.4	0.02	6.1	0.03
31	6.6	0.01	6.5	0.03	6.3	0.01	6.6	0.01	6.5	0.01	6.4	0.01	6.6	0.02	6.5	0.02	6.2	0.02
49	6.6	0.01	6.5	0.01	6.2	0.01	6.6	0.02	6.5	0.02	6.2	0.01	6.6	0.01	6.5	0.02	6.3	0.02
Pukekohe soil																		
1	6.4	0.02	6.4	0.02	6.4	0.00	6.5	0.02	6.5	0.01	6.5	0.02	6.2	0.06	6.1	0.04	6.0	0.04
5	6.4	0.01	6.4	0.04	6.3	0.02	6.5	0.02	6.4	0.03	6.4	0.03	6.5	0.04	6.4	0.03	6.4	0.02
9	6.2	0.01	5.9	0.01	5.8	0.01	6.2	0.01	6.0	0.02	5.8	0.01	6.2	0.04	5.9	0.02	5.7	0.02
13	5.9	0.01	5.9	0.01	5.8	0.05	6.1	0.01	6.0	0.01	5.7	0.02	6.0	0.02	5.9	0.02	5.6	0.02
21	5.9	0.02	5.9	0.02	5.7	0.03	6.0	0.02	6.0	0.02	5.7	0.02	5.9	0.02	5.9	0.01	5.7	0.02
31	6.0	0.00	5.9	0.01	5.7	0.01	6.1	0.01	5.9	0.00	5.8	0.01	6.0	0.02	5.9	0.03	5.7	0.01
49	6.0	0.02	5.9	0.03	5.6	0.02	6.1	0.01	5.9	0.00	5.7	0.03	6.0	0.01	5.9	0.02	5.6	0.01

Table S2. Extractable Al (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Al (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	SE
Levin soil																		
1	0.4	0.007	0.4	0.012	0.4	0.003	0.5	0.022	0.5	0.015	0.5	0.015	0.4	0.016	0.5	0.012	0.4	0.009
5	0.3	0.004	0.3	0.018	0.3	0.014	0.3	0.005	0.3	0.026	0.4	0.019	0.3	0.011	0.3	0.024	0.4	0.019
9	0.2	0.006	0.3	0.004	0.3	0.010	0.2	0.011	0.2	0.006	0.3	0.006	0.2	0.002	0.3	0.010	0.3	0.038
13	0.8	0.131	1.5	0.464	1.2	0.088	1.4	0.059	1.4	0.182	1.4	0.199	1.4	0.059	1.4	0.159	1.3	0.209
21	1.1	0.413	0.5	0.009	0.4	0.020	0.5	0.028	0.7	0.028	0.9	0.299	0.7	0.190	0.4	0.079	0.9	0.072
31	1.2	0.174	0.8	0.059	1.3	0.274	2.0	0.235	1.4	0.427	0.8	0.278	1.6	0.167	1.1	0.139	1.4	0.177
49	0.4	0.058	0.7	0.043	0.6	0.089	0.5	0.055	0.5	0.060	0.6	0.030	0.4	0.092	0.7	0.182	0.7	0.105
Week	Pukekohe soil																	
1	0.4	0.022	0.4	0.021	0.4	0.030	0.5	0.043	0.4	0.029	0.5	0.030	0.5	0.052	0.5	0.036	0.6	0.050
5	0.3	0.021	0.4	0.011	0.4	0.013	0.4	0.026	0.4	0.021	0.7	0.237	0.5	0.029	0.5	0.017	0.5	0.028
9	0.2	0.022	0.2	0.004	0.3	0.022	0.2	0.058	0.3	0.033	0.2	0.040	0.3	0.011	0.3	0.012	0.4	0.015
13	0.9	0.166	0.9	0.129	1.1	0.058	0.8	0.109	1.7	0.172	1.5	0.200	1.2	0.261	1.3	0.215	1.6	0.273
21	0.8	0.157	0.7	0.074	1.0	0.224	0.7	0.312	0.7	0.078	1.7	0.404	1.3	0.296	1.1	0.210	0.9	0.147
31	1.4	0.469	1.1	0.207	1.2	0.255	2.3	0.393	1.1	0.166	1.2	0.271	1.7	0.208	1.4	0.193	1.2	0.340
49	0.9	0.283	1.3	0.469	0.8	0.085	1.0	0.321	0.8	0.029	1.2	0.096	0.8	0.117	0.8	0.152	0.8	0.069

Table S3 Extractable Cu (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Extractable Cu (mg/kg)																		
Week	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	SE
Levin soil																		
1	0.2	0.012	0.2	0.006	0.2	0.010	0.2	0.025	0.2	0.011	0.2	0.004	0.2	0.035	0.2	0.008	0.2	0.007
5	0.1	0.001	0.1	0.003	0.1	0.000	0.1	0.004	0.1	0.003	0.1	0.003	0.1	0.004	0.1	0.005	0.1	0.006
9	0.1	0.002	0.1	0.001	0.1	0.002	0.1	0.006	0.1	0.001	0.1	0.003	0.1	0.003	0.1	0.005	0.1	0.002
13	0.1	0.003	0.1	0.001	0.1	0.005	0.1	0.012	0.1	0.001	0.1	0.002	0.1	0.012	0.1	0.002	0.1	0.005
21	0.1	0.008	0.1	0.015	0.1	0.012	0.1	0.000	0.1	0.009	0.1	0.009	0.1	0.010	0.1	0.014	0.1	0.014
31	0.1	0.006	0.0	0.011	0.1	0.008	0.1	0.003	0.0	0.003	0.0	0.011	0.1	0.011	0.0	0.009	0.0	0.013
49	0.1	0.004	0.0	0.011	0.1	0.014	0.1	0.012	0.0	0.007	0.1	0.009	0.0	0.013	0.1	0.001	0.1	0.005
Pukekohe soil																		
1	0.2	0.008	0.1	0.007	0.2	0.006	0.2	0.011	0.2	0.013	0.2	0.003	0.2	0.020	0.1	0.003	0.2	0.014
5	0.1	0.002	0.1	0.003	0.1	0.002	0.1	0.003	0.1	0.006	0.1	0.015	0.1	0.011	0.1	0.006	0.1	0.004
9	0.1	0.001	0.1	0.004	0.1	0.006	0.1	0.005	0.1	0.015	0.1	0.001	0.1	0.006	0.1	0.010	0.1	0.003
13	0.1	0.009	0.1	0.003	0.1	0.003	0.1	0.003	0.1	0.001	0.1	0.001	0.1	0.003	0.1	0.002	0.1	0.009
21	0.1	0.009	0.1	0.009	0.1	0.010	0.1	0.003	0.1	0.007	0.1	0.008	0.1	0.009	0.1	0.010	0.1	0.016
31	0.1	0.002	0.0	0.016	0.1	0.001	0.0	0.007	0.0	0.005	0.1	0.004	0.1	0.007	0.0	0.009	0.1	0.013
49	0.0	0.008	0.1	0.003	0.0	0.015	0.1	0.007	0.0	0.005	0.0	0.007	0.1	0.013	0.0	0.011	0.1	0.012

Table S4 Extractable Fe (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Fe (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	SE
Levin soil																		
1	0.2	0.012	0.2	0.006	0.2	0.006	0.2	0.012	0.2	0.004	0.2	0.006	0.2	0.024	0.2	0.007	0.2	0.009
5	0.1	0.002	0.2	0.009	0.2	0.007	0.2	0.005	0.2	0.015	0.2	0.009	0.1	0.003	0.2	0.004	0.2	0.015
9	0.1	0.002	0.1	0.001	0.1	0.008	0.1	0.007	0.1	0.002	0.1	0.002	0.1	0.004	0.1	0.008	0.1	0.010
13	0.4	0.041	0.7	0.235	0.5	0.036	0.6	0.035	0.7	0.087	0.6	0.118	0.6	0.035	0.7	0.116	0.6	0.096
21	0.9	0.153	0.6	0.046	0.5	0.040	0.6	0.013	0.6	0.036	0.7	0.135	0.7	0.085	0.5	0.051	0.6	0.051
31	0.9	0.107	0.7	0.050	1.0	0.122	1.3	0.111	0.9	0.222	0.7	0.144	1.0	0.129	0.7	0.099	0.9	0.064
49	0.6	0.043	0.7	0.045	0.7	0.075	0.6	0.076	0.5	0.050	0.7	0.027	0.5	0.077	0.7	0.062	0.7	0.033
Week	Pukekohe soil																	
1	0.1	0.008	0.1	0.014	0.2	0.008	0.1	0.015	0.2	0.027	0.2	0.005	0.1	0.007	0.1	0.017	0.2	0.018
5	0.1	0.009	0.2	0.010	0.1	0.009	0.1	0.010	0.2	0.012	0.3	0.101	0.2	0.016	0.1	0.010	0.2	0.005
9	0.1	0.003	0.1	0.001	0.1	0.006	0.0	0.005	0.1	0.022	0.1	0.003	0.1	0.004	0.1	0.001	0.1	0.002
13	0.4	0.076	0.4	0.056	0.4	0.020	0.3	0.037	0.6	0.071	0.6	0.098	0.5	0.097	0.5	0.080	0.5	0.097
21	0.7	0.044	0.7	0.036	0.7	0.045	0.6	0.071	0.6	0.049	0.9	0.104	0.8	0.071	0.7	0.050	0.6	0.007
31	0.9	0.145	0.8	0.105	0.9	0.070	1.1	0.136	0.8	0.055	0.8	0.079	1.0	0.081	0.9	0.086	0.8	0.081
49	0.7	0.048	0.9	0.165	0.7	0.059	0.8	0.126	0.6	0.018	0.7	0.056	0.7	0.075	0.6	0.081	0.6	0.032

Table S5 Extractable K (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Extractable K (mg/kg)																		
Week	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	324	33	308	10	344	10	217	13	221	6	220	2	182	3	180	3	179	1
5	276	2	268	2	269	3	204	0	201	2	209	2	180	2	176	1	180	1
9	303	1	297	1	263	34	195	2	223	0	224	4	246	3	229	33	191	1
13	327	4	325	2	332	7	194	8	227	3	232	6	194	8	189	3	202	3
21	251	22	282	46	235	43	219	6	185	30	131	15	169	17	174	27	133	28
31	258	36	249	51	283	32	242	1	149	12	182	40	169	31	107	23	137	35
49	278	26	254	37	277	57	183	40	134	23	210	28	133	32	196	2	188	12
Week	Pukekohe soil (mg/kg)																	
1	460	16	419	9	396	5	330	2	335	4	335	10	281	2	281	1	277	0
5	376	1	380	3	401	2	305	2	309	4	306	7	285	3	284	1	303	2
9	415	1	412	1	416	2	342	4	334	2	334	2	307	1	308	1	315	1
13	473	2	478	4	481	1	390	2	384	4	395	1	352	3	349	2	361	2
21	450	12	412	43	396	40	274	24	304	36	269	28	340	20	272	50	268	47
31	452	4	319	71	467	2	216	25	310	33	290	29	276	37	274	38	252	55
49	321	52	436	14	337	61	346	15	245	11	237	33	277	52	242	53	299	52

Table S6 Extractable Mg (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Mg (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	165	4	164	1	166	1	151	3	152	1	153	2	146	1	145	0	143	1
5	172	1	168	2	168	1	161	1	154	1	160	3	146	0	146	0	150	1
9	128	1	126	1	121	5	113	0	120	1	121	2	130	2	113	5	108	2
13	262	2	267	3	287	6	216	6	241	3	261	6	216	6	224	6	244	2
21	170	12	183	20	170	19	173	5	160	15	142	11	154	13	167	19	143	23
31	166	16	167	20	195	12	179	1	138	8	163	24	159	21	115	19	147	25
49	185	9	171	15	190	26	156	25	129	16	186	13	133	24	177	1	181	5
Week	Pukekohe soil																	
1	194	1	190	1	187	1	184	1	183	1	181	1	176	1	178	2	175	1
5	191	1	192	1	200	1	184	1	186	1	186	2	176	1	176	1	186	0
9	144	1	149	1	150	1	141	1	143	1	146	1	134	1	137	1	138	0
13	358	3	360	4	379	2	331	1	330	6	342	2	313	4	321	1	335	2
21	240	5	234	20	230	17	182	9	206	16	193	12	216	11	195	23	196	22
31	245	2	200	29	265	1	156	9	212	18	202	13	194	14	194	15	187	26
49	192	22	244	6	206	23	217	9	182	3	176	14	192	23	182	23	213	23

Table S7 Extractable Mn (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Mn (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	5.0	0.132	4.9	0.061	5.4	0.205	5.7	0.298	5.5	0.062	5.9	0.212	5.2	0.049	5.0	0.084	5.1	0.097
5	3.3	0.089	3.2	0.014	3.2	0.083	3.3	0.095	3.4	0.154	3.5	0.087	3.3	0.028	3.4	0.089	3.5	0.127
9	5.0	0.101	5.7	0.033	6.5	0.025	4.6	0.225	5.1	0.236	6.0	0.269	5.3	0.067	5.5	0.428	6.4	0.525
13	3.6	0.018	3.4	0.241	5.0	0.262	3.4	0.240	3.3	0.496	5.2	0.447	3.4	0.240	3.2	0.125	4.9	0.191
21	4.5	0.256	5.1	1.707	6.3	1.187	5.4	0.135	3.8	0.593	4.7	0.664	5.2	0.457	4.2	0.735	6.0	1.113
31	2.5	0.276	1.9	0.330	2.9	0.433	3.5	0.264	2.1	0.179	2.9	0.497	2.5	0.138	1.5	0.291	2.4	0.457
49	1.6	0.122	1.8	0.251	2.6	0.455	1.8	0.406	1.5	0.244	3.1	0.333	1.4	0.310	2.4	0.061	3.1	0.224
Week	Pukekohe soil																	
1	19	1	15	0	17	1	20	1	16	0	19	1	25	4	19	1	23	2
5	11	0	12	0	13	0	11	0	12	0	13	1	13	1	15	0	17	0
9	25	0	21	0	25	0	22	1	20	1	20	1	25	2	21	1	28	1
13	18	0	14	0	18	1	16	1	13	0	20	1	19	1	16	1	22	0
21	38	2	26	3	40	4	27	1	22	2	39	5	44	2	25	4	47	10
31	16	0	11	3	19	0	9	1	13	1	15	1	14	1	14	2	18	4
49	7	1	9	0	10	2	9	0	7	0	10	1	9	2	9	2	15	2

Table S8 Extractable Na (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Na (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	113	13	105	5	120	5	72	5	73	3	73	0	54	1	53	2	56	0
5	108	2	100	4	101	2	71	1	67	2	74	3	55	2	53	1	58	2
9	76	0	73	0	62	11	43	0	52	1	53	2	61	1	51	9	41	1
13	90	1	92	1	90	1	45	1	59	1	65	3	45	1	49	2	48	1
21	57	4	60	9	52	9	42	2	35	5	27	3	30	3	32	5	25	5
31	57	8	55	10	62	7	47	1	30	2	36	7	30	5	21	4	26	7
49	61	5	57	7	64	11	38	7	29	4	45	5	24	5	39	0	39	2
Week	Pukekohe soil																	
1	168	8	145	4	137	4	113	3	113	3	114	4	92	3	88	1	90	2
5	130	1	128	2	136	1	98	2	101	1	99	3	91	2	92	1	98	2
9	96	2	95	1	96	1	81	1	76	1	76	1	69	1	68	1	69	1
13	120	4	111	2	115	2	98	3	97	2	99	1	85	1	89	1	87	1
21	77	2	71	7	68	7	47	4	55	7	47	5	63	5	48	9	46	8
31	90	1	64	13	96	2	46	4	60	6	58	5	54	7	55	4	50	10
49	66	10	86	3	69	11	69	3	52	2	50	7	55	10	50	11	62	10

Table S9 Extractable P (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Extractable P (mg/kg)																		
Week	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	7.3	0.2	7.0	0.1	7.4	0.2	7.0	0.4	6.9	0.1	7.0	0.0	6.6	0.0	6.6	0.0	6.6	0.1
5	6.7	0.1	6.8	0.0	6.9	0.1	6.2	0.0	6.4	0.1	6.7	0.0	6.3	0.0	6.6	0.1	6.7	0.1
9	6.1	0.1	6.9	0.0	7.0	0.2	5.8	0.2	6.0	0.1	6.4	0.1	5.6	0.0	6.6	0.3	6.6	0.1
13	6.3	0.0	6.7	0.1	7.2	0.2	5.7	0.1	6.0	0.1	6.8	0.0	5.7	0.1	6.3	0.2	6.7	0.2
21	5.5	0.3	5.3	0.8	5.4	1.0	6.4	0.1	4.7	0.7	4.0	0.5	5.8	0.6	4.8	0.8	4.7	0.9
31	5.3	0.7	5.2	1.0	6.0	0.7	6.5	0.2	4.3	0.4	5.2	1.0	5.1	0.7	3.3	0.7	4.2	0.9
49	5.2	0.4	5.4	0.7	6.2	1.2	4.5	0.9	3.8	0.7	6.3	0.8	3.9	0.8	6.0	0.1	6.2	0.3
Week	Pukekohe soil																	
1	4.0	0.1	3.6	0.0	3.8	0.1	3.8	0.2	3.6	0.0	4.1	0.1	3.6	0.3	3.3	0.1	3.7	0.2
5	3.1	0.0	3.5	0.1	3.5	0.0	3.0	0.0	3.3	0.1	3.3	0.2	2.9	0.0	3.1	0.1	3.1	0.0
9	2.9	0.3	3.1	0.1	3.3	0.0	2.9	0.2	3.0	0.1	3.0	0.3	2.8	0.1	2.7	0.1	2.8	0.1
13	3.1	0.1	3.2	0.1	3.3	0.2	3.1	0.0	3.0	0.1	3.3	0.0	2.8	0.1	2.9	0.1	2.9	0.1
21	3.3	0.2	2.4	0.3	2.5	0.3	2.5	0.2	2.3	0.3	2.0	0.2	3.2	0.2	1.9	0.3	2.1	0.4
31	3.1	0.1	2.0	0.5	3.0	0.0	1.7	0.1	2.4	0.3	2.3	0.2	2.1	0.3	2.0	0.3	1.9	0.4
49	1.9	0.4	2.7	0.1	2.0	0.4	2.6	0.1	1.8	0.1	1.8	0.3	2.0	0.4	1.7	0.4	2.2	0.4

Table S10 Extractable S (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable S (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
	Levin soil																	
1	31.6	3.7	28.1	0.8	32.6	1.6	37.2	3.7	36.4	2.4	39.0	1.9	22.8	0.7	20.8	0.3	21.8	0.4
5	30.1	0.8	31.2	1.3	30.3	0.2	34.6	1.0	37.6	1.6	39.0	1.6	19.3	0.4	21.1	0.6	21.5	0.3
9	22.7	0.2	28.0	0.2	22.5	3.2	14.6	0.6	32.5	0.8	30.8	1.0	31.7	1.2	20.5	2.0	17.2	0.3
13	23.8	0.4	29.3	0.7	29.1	0.3	15.9	0.9	34.1	0.8	35.6	0.6	15.9	0.9	19.9	0.5	18.5	0.4
21	21.8	2.1	26.1	5.1	24.2	4.9	34.2	0.8	29.4	4.7	22.7	2.2	18.7	2.0	17.4	3.4	15.7	3.8
31	20.1	3.1	24.2	5.1	27.2	4.2	32.2	0.7	25.1	2.3	27.8	6.2	12.6	2.0	10.6	3.0	12.1	3.6
49	22.2	2.3	27.7	3.9	29.1	6.7	25.9	6.4	24.9	4.7	37.6	5.0	10.4	3.1	24.9	1.5	19.5	1.4
Week	Pukekohe soil																	
1	60.7	1.7	53.6	0.4	56.5	1.9	68.1	3.3	69.3	2.0	75.6	1.6	54.3	4.8	50.7	1.8	55.7	3.8
5	46.4	0.1	50.6	0.9	50.0	0.3	51.8	0.9	55.2	1.1	55.3	1.5	43.5	1.0	46.6	0.9	46.2	0.1
9	47.3	0.9	45.3	0.4	44.5	0.2	49.1	0.9	49.8	1.0	49.1	0.4	39.2	1.3	36.8	1.0	37.9	0.5
13	45.9	1.0	50.4	0.4	48.4	0.6	51.9	0.9	55.7	0.6	57.5	0.6	40.2	0.8	41.5	0.5	41.2	0.2
21	57.6	1.6	44.1	5.4	46.2	6.2	44.8	3.0	46.3	6.3	42.3	3.9	52.0	2.9	31.3	5.9	35.2	6.8
31	46.2	0.7	34.7	9.2	52.0	0.4	28.6	3.1	48.4	5.9	43.2	4.4	30.7	4.3	32.0	4.8	29.3	6.8
49	30.8	6.0	51.3	2.0	33.8	7.2	48.3	2.5	38.3	2.0	35.0	5.3	30.1	6.3	29.1	7.1	34.5	6.5

Table S11 Extractable Zn (mg/kg) over time (week) in Levin soil and Pukekohe with and without composts. SE is the standard error of the mean (n=3).

Week	Extractable Zn (mg/kg)																	
	Municipal compost amended soils						Sawdust compost amended soils						No organic matter added soils					
	T-19	SE	T-30	SE	T3-0+N	SE	T-19	SE	T-30	SE	T-30+N	SE	T-19	SE	T-30	SE	T-30+N	
Levin soil																		
1	0.258	0.01	0.151	0.01	0.178	0.02	0.179	0.04	0.183	0.03	0.099	0.01	0.149	0.03	0.018	0.00	0.165	0.02
5	0.065	0.00	0.069	0.01	0.071	0.00	0.052	0.00	0.064	0.01	0.060	0.00	0.066	0.00	0.013	0.00	0.060	0.01
9	0.066	0.01	0.069	0.00	0.090	0.00	0.061	0.01	0.052	0.01	0.900	0.00	0.012	0.00	0.026	0.00	0.090	0.00
13	0.161	0.05	0.178	0.02	0.305	0.05	0.172	0.05	0.244	0.06	0.143	0.03	0.156	0.02	0.016	0.00	0.272	0.06
21	0.130	0.06	0.150	0.00	0.059	0.00	0.109	0.02	0.100	0.05	0.006	0.00	0.133	0.10	0.009	0.00	0.041	0.03
31	0.277	0.12	0.129	0.03	0.062	0.02	0.254	0.06	0.151	0.06	0.038	0.02	0.050	0.00	0.005	0.00	0.030	0.01
49	0.038	0.01	0.008	0.00	0.010	0.00	0.002	0.00	0.015	0.00	0.060	0.00	0.022	0.01	0.012	0.00	0.026	0.01
Week	Pukekohe soil																	
1	0.31	0.01	0.25	0.01	0.30	0.01	0.32	0.01	0.29	0.05	0.26	0.01	0.37	0.04	0.31	0.02	0.34	0.02
5	0.24	0.00	0.24	0.01	0.30	0.01	0.21	0.01	0.23	0.02	0.27	0.03	0.29	0.03	0.28	0.02	0.32	0.01
9	0.23	0.00	0.29	0.02	0.37	0.01	0.25	0.06	0.24	0.03	0.25	0.03	0.26	0.01	0.26	0.01	0.37	0.00
13	0.56	0.03	0.54	0.02	0.80	0.14	0.44	0.03	0.45	0.01	0.48	0.03	0.49	0.05	0.65	0.07	0.63	0.05
21	0.33	0.03	0.29	0.05	0.54	0.16	0.28	0.06	0.21	0.04	0.29	0.06	0.36	0.01	0.30	0.03	0.31	0.06
31	0.42	0.02	0.26	0.07	0.51	0.04	0.17	0.02	0.32	0.01	0.31	0.04	0.31	0.04	0.34	0.07	0.37	0.05
49	0.17	0.03	0.26	0.01	0.32	0.08	0.20	0.03	0.15	0.02	0.21	0.03	0.19	0.05	0.17	0.05	0.40	0.08

Table S12 Fisher’s post hoc test of the data used in Figure 1 (A-F). Values with the same capital letters in the rows are not significantly different. Values with the same lower-case letters in the columns are not significantly different. The “*” indicates no significant difference.

Treatment	Week						
Figure 1A	1*	5	9*	13*	21*	31*	49
T-19	A	Aa	A	AB	BC	BC	Ca
T-30	A	Ab	A	AB	AB	BC	Cb
T-30+N	A	Ac	A	B	B	B	Bc
Figure 1B	Week						
	1*	5	9*	13*	21*	31*	49
T-19	A	Ba	B	B	B	B	Ba
T-30	BC	ABab	A	D	D	CD	Db
T-30+N	AB	Bb	A	C	C	C	Cb
Figure 1C	Week						
	1*	5*	9	13*	21	31	49
T-19	B	BC	Aa	CD	Da	Da	Da
T-30	BC	AB	Ab	CD	Db	Dab	Db
T-30+N	AB	B	Aab	C	Cab	Cb	Cab
Figure 1D	Week						
	1	5*	9	13	21	31	49*
T-19	BCb	AB	Aa	ABa	Aba	BCa	C
T-30	Aa	AB	Aab	Cb	BCa	Dab	D
T-30+N	Aab	A	Ab	ABb	BCb	CDb	D
Figure 1E	Week						
	1	5*	9*	13	21	31	49
T-19	ABa	B	A	Ca	Ca	Ca	Ca
T-30	Cb	B	A	CDb	Dc	CDb	CDab
T-30+N	Bab	B	A	Cb	CDb	Dc	Db
Figure 1F	Week						
	1*	5*	9*	13*	21*	31*	49*
T-19	AB	BC	A	D	D	CD	D
T-30	A	B	B	C	C	C	C
T-30+N	A	B	A	C	C	C	C

Table S13 Fisher’s post hoc test of the data used in Figure 2 (A-F). Values with the same capital letters in the rows are not significantly different. Values with the same lower-case letters in the columns are not significantly different. The “*” indicates no significant difference.

Treatment	Week						
Figure 2A	1*	5	9	13	21*	31	49*
T-19	BC	Aa	Bb	B	CD	CD	Db
T-30	B	CDb	Ab	BC	DE	E	CDab
T-30+N	BC	CDEb	Aa	B	DE	E	BCDa
Figure 2B	Week						
	1*	5	9	13	21*	31	49*
T-19	B	Aa	Bb	Cc	C	Cb	C
T-30	B	Bb	Ab	CDb	C	Db	CD
T-30+N	B	Bb	Aa	Ba	B	Ba	B
Figure 2C	Week						
	1	5*	9	13	21*	31*	49*
T-19	BCa	A	Bb	Cb	BC	BC	BC
T-30	ABa	A	ABb	ABab	B	B	B
T-30+N	Bb	AB	Aa	Ba	B	B	B
Figure 2D	Week						
	1*	5	9	13	21*	31*	49*
T-19	B	BCb	Ab	Dc	B	CD	D
T-30	B	Bb	Ab	Bb	BC	BC	C
T-30+N	BC	BCa	Aa	Ba	C	C	BC
Figure 2E	Week						
	1*	5	9	13*	21*	31	49*
T-19	AB	Bb	Ab	B	AB	ABab	B
T-30	BC	BCb	Ab	B	BC	Cb	BC
T-30+N	D	CDa	Aa	B	BCD	BCa	D
Figure 2F	Week						
	1*	5*	9	13	21*	31	49*
T-19	B	BC	Ab	CDb	BCD	Db	BCD
T-30	CD	BC	Ab	ABa	CD	CDab	D
T-30+N	BC	B	Aa	Aa	BC	BCa	C