

Table S1. Experimental parameters^a and composition^b of the CaCl₂ extract solution at the initial pH

Organic fertiliser ^c	FW	^b Vol CaCl ₂	pH	Al	Ca	Fe	K	Mg	Mn	P _t	DOC	N-NH ₄	N-NO _x	P _{org}	P _{org}
	g	mL	(-)						mg/L						% P _t
AMP-SF	3.41	500	7.32	-0.01	376	0.01	54.7	13.1	0.055	1.86	22	7.55	0.81	0.11	5.93
WNE-SF	3.53	500	8.02	-0.01	372	0.04	92.8	8.0	0.095	2.61	89	2.64	0.05	0.11	4.21
WNE-SF+NK	8.57	500	7.72	0.01	350	0.43	346	18.9	0.099	8.12	323	11.0	0.04	3.19	39.3
GZV-SF1	8.60	500	8.19	-0.01	302	0.04	61.1	22.8	0.043	3.53	36	67.7	0.08	0.37	10.3
GZV-SF2	86.4	500	4.44	0.01	488	0.13	31.8	44.1	3.200	75.1	68	7.15	0.10	15.6	20.8
BNS-SF1	30.5	500	6.24	-0.01	289	2.36	268	9.46	0.141	3.16	181	90.0	0.97	1.31	41.5
BNS-SF2	9.54	500	7.37	-0.02	338	0.03	162	13.6	0.085	1.90	43	0.77	0.06	0.15	7.92
BP-SF	44.8	500	8.41	0.09	222	0.75	268	27.9	0.053	4.80	244	263	2.08	2.18	45.4
DF-SF	23.8	500	7.20	0	341	0.02	241	78.9	0.216	16.2	45	0.50	64.5	3.75	23.2
VFG-COMP1	32.5	500	7.97	0.18	293	0.21	355	28.0	0.095	1.26	124	2.10	0.45	0.71	56.4
VFG-COMP2	27.0	500	7.30	0.06	942	0.12	232	37.4	0.338	9.82	191	1.20	0.05	2.47	25.2
VFG-COMP3	42.0	500	7.80	0.07	295	0.11	356	28.1	0.093	1.26	124	2.10	0.15	0.31	24.6
VFG-COMP4	43.5	500	7.38	0.06	226	0.13	440	32.3	0.059	1.89	144	9.20	6.90	0.59	31.2
GW-COMP1	116	500	7.90	0.38	736	0.34	208	26.2	0.008	1.14	48	1.55	0.05	0.39	34.2
GW-COMP1	105	500	6.99	0	320	0.02	167	37.5	0.018	0.37	32	-0.10	14.5	-0.03	-8.11
Soil1	83.5	500	7.15	0.27	299	0.19	280	34.5	0.027	0.80	44	0.10	22.3	0.25	31.3
Soil2	124	500	6.90	0.22	339	0.16	104	25.3	0.028	0.29	26	0.05	12.8	0.09	31.0
Soil3	152	500	6.67	1.47	290	0.88	126	28.4	0.036	0.88	43	0.05	0.20	0.53	60.2

^aFW = sample fresh weight at equivalent total P of 150 mg/L; Vol CaCl₂ = volume of the CaCl₂ extraction solution; pH_{i=0} = initial pH of the extraction solution

^bDOC = dissolved organic carbon; N-NO_x = N-NO₃ + N-NO₂; P_{org} = organic P

^c SF: Solid fraction, AMP: Am-Power, GZV: Groot Zevert Vergisting, BNS: Benas, WNE: Waterleau New Energy, DF: Dairy Farm, VFG-COMP: compost of vegetable, fruit and garden (VFG) waste, GW-COMP: compost of garden waste (GW).

Table S2. Experimental parameters^a and composition^b of the CaCl₂ extract 30 minutes after lowering the pH towards 5.0

Organic fertiliser ^c	FW	Vol. CaCl ₂	pH	Al	Ca	Fe	K	Mg	Mn	P	DOC	N-NH ₄	N-NO _x	P _{org}	P _{org}
	g	mL	(-)								mg/L				% P _t
AMP-SF	3.41	475	5.62	-0.01	394	0.14	62.9	42.7	0.41	33.4	29	20.8	0.86	2.85	8.53
WNE-SF	3.53	475	5.75	-0.01	462	0.62	107	47.5	1.16	65.2	110	12.4	0.05	1.40	2.15
WNE-SF+NK	8.57	475	5.78	0.02	466	0.63	362	54.7	1.24	72.0	336	27.2	0.05	-0.60	-0.83
GZV-SF1	8.60	475	5.29	0	485	0.23	69.8	94.8	2.26	135	33.3	106	0.05	4.50	3.33
GZV-SF2	86.4	500	-	0.01	488	0.13	31.8	44.1	3.20	75.1	68.0	7.15	0.10	15.6	20.8
BNS-SF1	30.5	475	5.54	0.01	384	1.96	276	35.8	1.47	47.3	168	106	0.76	5.30	11.2
BNS-SF2	9.54	475	5.69	-0.01	384	0.10	166	20.4	0.62	17.3	54.3	0.30	0.04	1.90	11.0
BP-SF	44.8	475	5.58	0.04	1452	0.41	277	76.7	3.23	42.4	206	293	1.99	5.10	12.0
DF-SF	23.8	425	5.77	0.02	498	0.09	250	106	2.03	86.7	56.0	0.95	65.5	18.7	21.6
VFG-COMP1	32.5	425	5.80	0.12	1036	0.30	366	51.0	0.81	38.0	194	2.50	0.20	10.7	28.2
VFG-COMP2	27.0	425	5.80	0.17	673	0.25	233	48.6	1.42	43.1	235	1.30	0.05	10.8	25.1
VFG-COMP3	42.0	425	5.90	0.09	493	0.17	300	48.5	1.23	42.8	129	21.2	9.20	9.95	23.3
VFG-COMP4	43.5	425	5.90	0.06	514	0.21	488	62.1	0.76	30.2	204	10.5	6.95	8.30	27.5
GW-COMP1	116	425	5.80	0.03	574	0.07	237	49.9	0.76	27.6	73.0	0.15	0.05	8.30	30.1
GW-COMP1	105	425	5.60	0.02	442	0.06	180	48.4	0.37	3.89	43.0	0.15	15.5	0.94	24.2
Soil1	83.5	425	5.70	0.32	425	0.25	294	47.5	0.49	11.2	65.0	0.20	22.0	2.85	25.4
Soil2	123	425	5.67	0.82	422	0.55	110	30.7	0.30	1.91	37.0	0	12.7	0.66	34.5
Soil3	152	425	5.48	0.44	802	0.28	140	36.6	0.26	2.14	52.0	0.20	0.05	0.69	32.2

^aFW = sample fresh weight at equivalent total P of 150 mg/L; Vol CaCl₂ = remaining volume of the CaCl₂ extraction solution after an aliquot was removed for analysis; pH_{i=0} = initial pH of the extraction solution

^bDOC = dissolved organic carbon; N-NO_x = N-NO₃ + N-NO₂; P_{org} = organic P

^cSF: Solid fraction, AMP: Am-Power, GZV: Groot Zevert Vergisting, BNS: Benas, WNE: Waterleau New Energy, DF: Dairy Farm, VFG-COMP: compost of vegetable, fruit and garden (VFG) waste, GW-COMP: compost of garden waste (GW).