

	Control soils						Soils treated with different rock fines ± manure								
	T01	T02	T03	T04	T05	T06	T41	T12	T22	T62	T22B	T12B	T62B	T13	T23
Texture															
Sand	86.00	82.50	18.00		5.00	40.00	83.00	75.00	70.00	77.50	62.00	76.00	75.00	27.00	38.00
Silt	10.00	5.00	24.00		40.00	28.00	13.00	10.00	20.00	15.00	31.00	10.00	10.00	28.00	34.00
Clay	4.00	12.50	58.00		55.00	32.00	4.00	15.00	10.00	7.50	7.00	14.00	15.00	45.00	43.00
	LS	LS	C		SC	CL	LS	SL	SL	C	SL	SL	C	C	C
Soil reaction															
pH water	7.10	6.40	5.60	5.92	4.60	5.80	7.20	6.00	6.60	6.50	6.71	6.98	7.17	5.70	6.40
Organic matter															
CO(%)	5.52	1.30	0.95	2.30	3.81	7.22	6.39	0.21	0.34	2.05	1.14	1.13	3.10	1.59	2.06
MO(%)	9.25	2.24	1.64	4.00	6.57	12.45	11.29	0.35	0.59	3.54	1.97	1.95	5.35	2.74	4.12
N (g/Kg)	4.62	0.56	0.06		3.06	0.16	5.46	0.98	0.70	0.85	0.36	0.35	0.37	0.14	0.26
C/N	11.60	23.00	15.00		12.00		11.62	2.00	5.00	24.00	32.00	32.00	88.00	11.00	9.00
Exchangeable Cations (meq/100g)															
Ca	1.76	1.64	3.84	0.90	2.52	3.20	1.96	1.92	2.96	2.44	0.16	2.32	1.78	6.64	9.12
Mg	0.88	0.84	2.27	0.30	0.52	3.20	0.96	0.40	0.44	0.24	0.08	0.40	0.60	3.67	4.26
K	0.70	0.80	0.73		0.07	0.01	1.08	0.80	0.20	0.62	0.07	0.07	0.45	0.73	0.67
Na	0.04	0.01	0.06		0.02	0.00	0.06	0.04	0.02	0.06	0.76	0.76	0.76	0.04	0.08
Sum of exchangeable bases (meq/100g)															
	3.38	3.29	6.90	1.90	3.13	6.40	4.06	3.16	3.62	3.36	1.07	3.55	3.59	11.08	14.13
Capacity of cationic exchange (meq/100g)															
	7.40	15.00	15.27	22.00	8.80	20.40	8.80	15.20	13.60	14.20	18.25	19.25	19.50	33.18	48.89
Phosphorus Assimilable (ppm) Bray II															
	6.82	7.78	26.48	19.60	20.52	19.13	7.24	26.65	51.50	50.91	71.37	75.80	2.07	27.95	32.70

T01, T02, T03, T04, T05 and T06 are control soils collected in the localities of Foubot, Bonandale, Kalong, Befang, Santa and Batibo in Cameroon, respectively. Treated soils were collected in the same localities, respectively. T41 = T01 + 600g basalt fines + 600g poultry manure; T12 = T02 + 2Kg basalt fines; T22 = T02 + 2Kg limestone fines; T62 = T02 + 1Kg limestone; T22B = T22 after 06 months of growth period; T12B = T12 after 06 months of growth period; T62B = T62 after 06 months of growth period; T13 = T03 + 3Kg basalt fines; T23 = T03 + 3Kg gneiss fines. Abbreviations: LS = Loamy sand; C = Clay; SC = Silty clay; CL = Clay loam; SL = Silty laom. pHw = pH water. The letter "B" indicates soil samples collected after 06 months of plant growth.

Table 2: Physico-chemical properties of controls and soils treated with different rock fines ± manure collected in different localities in Cameroon.