

Comparing the soil horizons of each block

The recorded values for the five **FH horizons** are given in the table below

Block	Horizon	Wt (mg)	%N	%C	C:N	Ca	K	Mg	%ML	%LOI	pH (H ₂ O)	pH (CaCl ₂)
1	FH	6.091	2.14	39.97	18.64	9.84	5.13	6.84	8.79	77.88	4.67	4.38
2	FH	5.914	1.85	32.81	17.72	8.36	3.29	3.93	8.03	62.81	4.38	3.74
3	FH	5.4	2.11	39.38	18.71	6.24	3.76	4.3	8.75	76.36	4.42	3.92
4	FH	5.827	1.88	38.12	20.24	10.05	3.41	4.48	8.94	73.26	4.76	4.01
5	FH	6.218	2.05	33.81	16.46	11.91	3.3	5.92	8.16	67	4.66	4.48

The data suggest that there are detectable differences in levels of Ca, K and Mg in the FH layer of the soil, with the highest levels of Ca in blocks 4 and 5, and the highest levels of K and Mg in block 1.

The recorded values of the variables for the five **H horizons** are given in the table below

Block	Horizon	Wt (mg)	%N	%C	C:N	Ca	K	Mg	%ML	%LOI	pH (H ₂ O)	pH (CaCl ₂)
1	H	5.809	2.35	34.92	14.87	6.16	2.96	4.24	8.78	67.32	4.55	3.74
2	H	5.109	1.31	17.93	13.72	5.84	1.14	2.62	7.61	37.76	4.71	3.98
3	H	5.558	2.15	31.82	14.84	4.13	2.78	3.08	9.87	62.5	4.99	4.05
4	H	5.869	2.14	32.25	15.1	7.08	2.73	3.35	10.09	63.99	4.94	4.19
5	H	5.717	2.17	31.06	14.31	12.54	1.5	5.5	9.43	59.64	5.2	4.41

Again, the highest level of Ca in the H horizon occurs in the soil pit for block 5. In contrast, the H horizon in the soil pit for block 2 has noticeably lower values of %N, %C, K, Mg, %Moisture loss and %LOI than the same horizon in the soil pits for the other blocks.

The recorded values of the variables for the **A, B and C horizons** in the soil pits are given in the following tables

Block	Horizon	Wt (mg)	%N	%C	C:N	Ca	K	Mg	%ML	%LOI	pH (H ₂ O)	pH (CaCl ₂)
1	Ap	5.594	0.34	4.43	12.88	0.36	0.31	0.28	4.9	11.83	4.63	3.66
2	A h	5.731	0.49	7.01	14.33	1.79	0.52	0.81	4.81	16.2	4.98	3.98

3	Ah	5.758	0.34	5.34	15.56	0.42	0.37	0.24	4.69	14.68	4.6	3.78
3	AB	5.231	0.23	2.7	11.6	0.18	0.17	0.07	3.42	8.11	5.03	4.06
4	Ah	5.141	0.42	6.41	15.3	0.92	0.53	0.33	4.77	14.59	4.57	3.95
4	AB	5.446	0.12	1.77	14.73	0.36	0.07	0.13	4.93	8.24	5.05	4.09
5	Ah	5.488	0.65	9.36	14.36	2.38	0.59	1.52	5.42	19.27	4.34	3.88
5	AB	5.464	0.27	3.17	11.61	0.35	0.13	0.27	2.97	8.78	4.87	3.95

Block	Horizon	Wt (mg)	%N	%C	C:N	Ca	K	Mg	%ML	%LOI	pH (H ₂ O)	pH (CaCl ₂)
1	Bx1	4.935	0.07	0.67	10.07	0.18	0.14	0.23	4.62	5.18	4.66	3.66
1	Bx2	5.771	0.03	0.31	11.14	0.15	0.19	0.18	3.89	3.94	4.63	3.63
1	BCx	5.679	0.03	0.31	11.21	0.32	0.2	0.37	4.29	3.93	4.7	3.62
2	B	5.899	0.18	2.3	12.51	0.39	0.1	0.21	4.81	8.8	5.13	4.05
2	BCx	6.129	0.03	0.3	9.1	0.19	0.12	0.17	3.98	4.75	4.93	3.94
3	Bs	5.263	0.12	1.75	14.36	0.15	0.07	0.06	4.24	7.11	4.95	4.09
3	BCx	5.191	0.02	0.3	12.12	0.21	0.14	0.09	3.96	4.57	4.98	3.97
4	Bs	5.449	0.08	1.04	12.64	0.59	0.12	0.25	6.8	8	4.8	3.94
5	Bg	5.592	0.06	0.72	11.58	0.19	0.05	0.15	2.79	6.05	4.66	4.02
5	BCg	5.618	0.04	0.43	10.2	0.64	0.14	0.64	3.17	4.83	4.79	3.84

Block	Horizon	Wt (mg)	%N	%C	C:N	Ca	K	Mg	%ML	%LOI	pH (H ₂ O)	pH (CaCl ₂)
1	CR	5.452	0.01	0.12	9.39	0.52	0.22	0.63	3.55	3.28	4.76	3.62
2	CR	5.656	0.02	0.19	9.26	0.23	0.15	0.21	2.64	3.07	5.42	4.08
3	C	5.483	0.02	0.25	10.95	0.18	0.12	0.07	3.2	3.67	4.89	3.97
4	Cx	5.677	0.02	0.27	12.43	0.34	0.19	0.26	4.11	4.47	5.02	3.88
5	Cg	5.372	0.01	0.12	10.45	5.08	0.32	3.5	3.21	4.12	4.94	3.97