

From Oh, N.H. and D.D. Richter. Elemental translocation and loss from three highly weathered soil-bedrock profiles in the southeastern United States. *Geoderma (in press)*.

Table 3. Physicochemical properties of the Enon series profile derived from diabase.

Horizon	Number of samples	Depth ^a (m)	Bulk density (Mg m ⁻³)	Carbon (%)	pH _w ^b	pH _s ^c	Clay (%)	Silt (%)	Sand (%)
<i>Arithmetic means</i>									
A	3	0.12	1.15	2.48	5.85	4.85	8.6	43.3	48.1
AE	2	0.29	1.29	1.10	6.23	5.10	9.6	40.1	50.3
BE	4	0.48	1.43	0.50	5.75	4.87	14.2	38.2	47.6
Bt	3	0.80	1.38	0.20	5.83	4.91	34.2	40.3	25.5
Bt	3	1.15	1.54	0.10	6.26	5.24	24.4	40.1	35.5
B	3	1.40	1.49	0.15	5.82	4.95	18.4	37.6	44.0
BC	3	1.75	1.51	0.10	5.93	4.90	12.6	32.3	55.1
CB	3	2.25	1.46	0.10	6.06	5.02	9.6	29.4	61.0
C	3	2.75	1.62	0.06	6.22	5.04	6.0	26.6	67.4
C	3	3.25	1.48	0.05	6.26	5.11	8.7	27.5	63.8
C	3	3.75	1.50	0.03	6.33	4.98	4.0	27.2	68.9
Rock	1	>7	3.06	na ^d	na	na	na	na	na
<i>Standard errors</i>									
A		0.02	0.03	0.27	0.02	0.05	1.33	1.05	2.16
AE		0.01	0.09	0.16	0.06	0.02	2.48	0.44	2.92
BE		0.04	0.09	0.08	0.14	0.05	3.28	0.51	3.00
Bt		0.03	0.06	0.03	0.13	0.16	5.90	1.95	6.62
Bt		0.00	0.08	0.01	0.24	0.26	1.03	3.40	3.50
B		0.00	0.09	0.03	0.09	0.05	5.43	1.75	7.09
BC		0.00	0.04	0.02	0.08	0.01	4.32	3.67	7.84
CB		0.00	0.04	0.01	0.04	0.06	2.82	1.12	3.93
C		0.00	0.08	0.02	0.08	0.04	2.19	2.89	5.07
C		0.00	0.05	0.01	0.01	0.07	2.83	1.40	3.63
C		0.00	0.08	0.00	0.03	0.03	0.38	4.14	4.51
Rock		na	na	na	na	na	na	na	na

^a Mean sampling depth.

^b Soil pH in water.

^c Soil pH with 0.01 M CaCl₂.

^d Not applicable.

Table 3 (continued)

Units are in $\text{cmol}_c \text{kg}^{-1}$ unless specified.

Horizon	Exch ^f Ca ²⁺	Exch Mg ²⁺	Exch K ⁺	Exch Na ⁺	KCl-Exch Acidity	ECEC ^g	EBS ^h (%)
<i>Arithmetic means</i>							
A	6.75	1.67	0.11	0.02	0.03	8.57	99.7
AE	3.96	1.23	0.04	0.02	0.00	5.24	100.0
BE	3.41	1.49	0.02	0.03	0.07	5.03	98.1
Bt	16.80	7.76	0.08	0.28	0.37	25.29	98.5
Bt	18.45	8.37	0.07	0.37	0.30	27.55	98.8
B	15.79	7.46	0.05	0.28	0.50	24.09	97.9
BC	15.14	6.64	0.04	0.26	0.56	22.64	97.5
CB	14.88	6.03	0.04	0.26	0.53	21.74	97.5
C	13.26	5.17	0.03	0.27	0.46	19.20	97.6
C	15.58	6.14	0.05	0.30	0.42	22.48	98.0
C	14.86	5.65	0.04	0.29	0.43	21.28	97.9
<i>Standard errors</i>							
A	1.15	0.43	0.01	0.01	0.00	1.57	0.02
AE	1.43	0.67	0.01	0.01	0.00	2.11	0.05
BE	1.42	0.72	0.00	0.01	0.01	2.15	0.54
Bt	2.68	1.58	0.02	0.09	0.07	4.31	0.24
Bt	1.61	1.43	0.02	0.11	0.09	2.99	0.40
B	0.58	0.28	0.01	0.03	0.03	0.83	0.14
BC	1.74	0.79	0.01	0.01	0.03	2.53	0.18
CB	1.39	0.48	0.01	0.00	0.04	1.84	0.28
C	1.05	0.62	0.00	0.03	0.01	1.63	0.14
C	2.15	0.75	0.02	0.01	0.03	2.88	0.36
C	3.37	1.21	0.01	0.02	0.04	4.64	0.27

^f Exch = Exchangeable^g Effective cation exchange capacity^h Effective base saturation

