

APPENDIX 1

Some chemical properties of the studied soils

| No. | Horizon | Depth [cm] | pH _{H2O} | pH _{KCl} | CaCO ₃ [%] | C _{org.} [%] | Hh* mmol(+)/kg ⁻¹ |
|-----|---------|------------|-------------------|-------------------|-----------------------|-----------------------|------------------------------|
| P1 | Ap | 0–30 | 6.40 | 6.24 | –** | 8.29 | 18.0 |
| | Et | 30–56 | 7.07 | 6.99 | – | 2.16 | 7.0 |
| | 2Bt1 | 56–98 | 6.92 | 6.60 | – | 1.32 | 9.0 |
| | 2Bt2 | 98–110 | 7.52 | 7.45 | – | – | 8.0 |
| | 2Ck | 110–150 | 8.14 | 8.00 | 0.8 | – | 1.0 |
| P2 | Ap | 0–25 | 7.24 | 7.03 | – | 10.00 | 5.7 |
| | Et | 25–43 | 7.51 | 7.14 | – | 1.85 | 3.8 |
| | 2Bt | 43–110 | 7.35 | 6.30 | – | 1.50 | 7.7 |
| | 2Ck1 | 110–130 | 7.95 | 7.46 | 3.8 | – | 6.8 |
| | 2Ck2 | 130–150 | 7.93 | 7.59 | 4.2 | – | 6.5 |
| P3 | Ap | 0–25 | 6.21 | 5.80 | – | 12.98 | 7.9 |
| | Et | 25–40 | 6.84 | 6.44 | – | 1.74 | 6.4 |
| | 2Bt | 40–95 | 8.07 | 7.21 | – | 1.19 | 2.7 |
| | 2Ckg1 | 95–125 | 8.48 | 7.87 | 3.5 | – | 1.5 |
| | 2Ck2 | 125–150 | 8.48 | 7.85 | 4.4 | – | 1.3 |
| P4 | Ap | 0–30 | 5.98 | 5.50 | – | 11.59 | 9.4 |
| | Et | 30–50 | 6.45 | 5.94 | – | 3.18 | 3.5 |
| | 2Bt | 50–80 | 7.81 | 6.92 | – | 1.22 | 6.3 |
| | 2Ck1 | 80–120 | 7.84 | 7.04 | trace | – | 2.8 |
| | 2Ck2 | 120–150 | 7.59 | 6.77 | 2.6 | – | 2.7 |
| P5 | Ap | 0–22 | 7.21 | 6.80 | – | 11.10 | 8.6 |
| | Et | 22–35 | 6.84 | 6.34 | – | 4.54 | 5.9 |
| | 2Bt | 35–110 | 8.01 | 7.01 | – | 1.30 | 2.8 |
| | 2BC | 110–130 | 6.93 | 6.85 | – | – | 1.7 |
| | 2Ck | 130–150 | 7.31 | 7.06 | trace | – | 1.1 |
| P6 | Ap | 0–20 | 7.85 | 7.73 | – | 11.24 | 10.2 |
| | Et | 20–42 | 7.73 | 7.27 | – | 1.91 | 9.3 |
| | 2EB | 42–90 | 7.80 | 7.75 | – | 0.96 | 7.5 |
| | 2Bt | 90–130 | 7.42 | 6.38 | – | – | 3.2 |
| | 2C | 130–150 | 7.47 | 6.82 | – | – | 2.6 |
| P7 | Ap | 0–23 | 7.23 | 6.65 | – | 9.94 | 7.3 |
| | Et | 23–43 | 8.02 | 7.59 | – | 3.17 | 5.4 |
| | 2EBg | 43–61 | 8.02 | 7.15 | – | 1.30 | 3.8 |
| | 2Btg | 61–111 | 7.82 | 6.65 | – | – | 1.9 |
| | 2Cg | 111–150 | 8.06 | 7.54 | – | – | 1.4 |

Hh* – hydrolytic acidity; ** – not detected