|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample ID | Total phosphorus (TP,g/kg) | Ammonium nitrogen (NH4,mg/kg) | Nitrate nitrogen (NO3,mg/kg) | Total nitrogen (TN,mg/kg) | pH | Soil density (SD,g/cm3) | Total carbon (TC,mg/g) | Soil dry-humidity ratio (DHR) |
| H4\_1 | 4.3763  | 21.2863  | 21.6210  | 235.0840  | 7.1700  | 2.7200  | 8.9200  | 84.7787  |
| H4-2 | 4.1800  | 16.7560  | 32.0440  | 164.1807  | 7.1600  | 2.6300  | 9.7400  | 85.6045  |
| H4\_3 | 4.0789  | 13.2727  | 26.7060  | 234.0336  | 7.2700  | 2.7000  | 11.4700  | 88.2627  |
| H4-4 | 4.1275  | 13.5000  | 32.4540  | 184.6639  | 7.1700  | 2.7522  | 8.1300  | 86.7650  |
| H4\_5 | 4.0500  | 15.3000  | 19.0650  | 202.5210  | 7.1200  | 2.6100  | 10.8500  | 85.9040  |
| D4\_1 | 4.2185  | 17.1800  | 23.5610  | 240.3361  | 7.0700  | 2.4179  | 8.6300  | 85.1814  |
| D4-2 | 4.0728  | 15.3500  | 26.6460  | 246.6387  | 6.8600  | 2.3500  | 8.5800  | 86.2243  |
| D4\_3 | 3.9272  | 14.8800  | 37.6470  | 279.2017  | 6.9900  | 2.4800  | 10.1200  | 84.9437  |
| D4-4 | 4.4431  | 12.0909  | 31.1620  | 265.5400  | 6.9300  | 2.4000  | 11.5100  | 85.4740  |
| D4\_5 | 3.9697  | 10.6818  | 35.8160  | 225.6900  | 6.8900  | 2.4500  | 13.9600  | 83.9044  |
| H5\_1 | 3.8058  | 21.3200  | 22.7070  | 189.9160  | 7.0800  | 2.5283  | 8.4800  | 89.5503  |
| H5-2 | 3.5508  | 19.4545  | 26.5860  | 289.7059  | 7.1300  | 2.4991  | 7.6100  | 89.3333  |
| H5\_3 | 3.9697  | 10.4091  | 21.4990  | 160.5042  | 7.2600  | 2.5048  | 7.0100  | 89.8389  |
| H5-4 | 3.7800  | 18.8700  | 24.9940  | 208.8235  | 7.1200  | 2.5060  | 8.7900  | 89.9771  |
| H5\_5 | 4.0000  | 17.2187  | 21.6360  | 239.2857  | 7.1600  | 2.4585  | 7.7600  | 90.1297  |
| D5\_1 | 3.6176  | 18.3800  | 31.5000  | 260.2941  | 6.9400  | 2.4780  | 7.9400  | 89.0790  |
| D5-2 | 3.8300  | 16.5300  | 34.6890  | 152.1008  | 6.8600  | 2.5315  | 8.6300  | 88.7516  |
| D5\_3 | 3.7876  | 21.4091  | 28.9700  | 240.3361  | 6.7800  | 2.4700  | 9.0400  | 88.5697  |
| D5-4 | 3.9200  | 16.2565  | 26.5800  | 294.9580  | 6.6100  | 2.4557  | 8.3200  | 88.8673  |
| D5\_5 | 4.0425  | 20.9545  | 25.1660  | 239.2857  | 6.6100  | 2.4452  | 8.7800  | 88.5789  |

Table 3

\*H,health; H4,samples from April; H5,samples from May; D,disease, D4,samples from April; D5,samples from May