**Table S1.** Average organic C (C org.), exchangeable cations and CEC of top soil. Soil samples have been taken outside the fertilization zone to avoid effect of fertilisers

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | C org. | Ca | Mg | K | Na | Sum | CEC | Ca/CEC |
| Trial | Depth | N a | Year b | g kg-1 | cmol(+)/kg | % |
| AB01 | 0-20 | 1 | 2007 | 25.1 | 1.48 | 0.25 | 0.13 | 0.11 | 1.97 | 2.82 | 52.5% |
| AL10 | 0-30 | 12 | 2014 | 14.5 | 5.81 | 0.17 | 0.07 | 0.04 | 6.09 | 12.71 | 45.7% |
| AW01 | 0-20 | 1 | 2006 | 460.3 | 10.24 | 2.32 | 0.59 | 0.24 | 13.39 | 25.11 | 40.8% |
| CA01 | 0-20 | 1 | 1976 | 35.0 | 2.30 | 0.39 | 0.11 | 0.06 | 2.86 | 12.10 | 19.0% |
| PS01 | 0-20 | 6 | 2002 | 13.8 | 0.90 | 0.31 | 0.13 | 0.49 | 1.84 | 2.66 | 33.9% |
| RU01 | 0-20 | 3 | 1983 | 29.1 | 1.58 | 0.39 | 0.11 | 0.02 | 2.10 | 9.74 | 16.2% |
| SA01 | 0-10 | 9 | 1986 | - | 9.70 | 3.82 | 0.10 | 0.08 | 13.70 | 14.20 | 68.3% |
| SA06 | 0-20 | 3 | 1982 | 14.7 | 6.70 | 1.91 | 0.15 | 0.11 | 8.87 | 13.22 | 50.7% |
| SA09 | 0-20 | 4 | 1987 | 13.0 | 0.46 | 0.04 | 0.03 | 0.32 | 0.85 | 1.78 | 25.9% |
| SA10 | 0-25 | 9 | 2007 | 23.7 | 13.26 | 4.20 | 0.22 | 0.16 | 17.84 | 20.01 | 66.3% |
| SG01 | Surface | 1 | 1977 | 41.5 | 5.90 | 3.78 | 0.17 | 0.09 | 9.94 | 27.79 | 21.2% |
| SL01 | 0-20 | 5 | 2010 | 18.3 | 1.97 | 0.58 | 0.06 | 0.04 | 2.65 | 4.20 | 47.0% |
| TT08 | 0-20 | 16 | 2011 | 25.4 | 8.03 | 1.15 | 0.44 | 0.12 | 9.75 | 9.74 | 82.4% |