**Table S1**: Mean values (± st.dv.) of pH, water (WC), carbon (C), nitrogen (N), and organic matter contents (expressed as % d.w.) and C/N ratio of the soils collected at forest (F), burned forest (WF), and urban (U) areas.

| site | pH | WC | C | N | C/N | OM | site | pH | WC | C | N | C/N | OM | site | pH | WC | C | N | C/N | OM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **F** | 7.75 | 18.01 | 9.58 | 0.52 | 18.42 | 15.44 | **WF** | 7.18 | 6.66 | 0.35 | 0.24 | 1.46 | 5.19 | **U** | 7.82 | 19.63 | 4.49 | 0.42 | 10.69 | 7.72 |
| | 7.83 | 17.93 | 8.83 | 0.47 | 18.63 | 14.75 | | 7.27 | 6.46 | 0.31 | 0.18 | 1.76 | 7.19 | | | 19.76 | 5.58 | 0.43 | 12.98 | 9.60 |
| | | | 9.21 | 0.46 | 20.19 | 16.28 | | | 6.54 | 0.43 | 0.20 | 2.17 | 6.17 | | | 19.21 | 4.91 | 0.40 | 12.28 | 8.45 |
| **F** | 7.25 | 0.93 | 6.45 | 0.44 | 14.73 | 4.15 | **WF** | 7.93 | 5.97 | 3.61 | 0.21 | 16.86 | 4.56 | **U** | 7.65 | 16.56 | 4.09 | 0.31 | 13.19 | 7.03 |
| | 7.30 | 1.13 | 4.97 | 0.38 | 13.25 | 4.00 | | 7.90 | 5.53 | 4.56 | 0.24 | 18.93 | 8.49 | | | 16.51 | 3.64 | 0.36 | 10.11 | 6.26 |
| | | 0.88 | 4.84 | 0.36 | 13.55 | 3.89 | | | 5.44 | 3.38 | 0.21 | 16.33 | 6.15 | | | 15.91 | 3.69 | 0.36 | 10.25 | 6.35 |
| **F** | 6.68 | 52.67 | 19.57 | 1.29 | 15.22 | 23.69 | **WF** | 7.94 | 3.14 | 1.52 | 0.22 | 6.90 | 8.79 | **U** | 7.92 | 6.23 | 2.79 | 0.21 | 13.29 | 4.80 |
| | 6.69 | 62.60 | 19.03 | 1.00 | 19.04 | 22.08 | | 7.92 | 3.09 | 1.51 | 0.23 | 6.61 | 10.02 | | | 6.08 | 2.91 | 0.21 | 13.86 | 5.01 |
| | | 51.21 | 19.50 | 1.05 | 18.65 | 19.79 | | | 4.16 | 1.52 | 0.20 | 7.73 | 7.86 | | | 6.23 | 2.95 | 0.26 | 11.35 | 5.07 |
| **F** | 8.00 | 24.71 | 3.02 | 0.13 | | 3.02 | **WF** | 7.23 | 1.90 | 13.49 | 0.73 | 18.40 | 16.60 | **U** | 8.04 | 13.46 | 6.43 | 0.54 | 11.91 | 11.06 |
| | 8.08 | 24.00 | 3.24 | 0.26 | 12.25 | 2.54 | | 7.29 | | 13.26 | 0.67 | 19.86 | 17.99 | | | 14.26 | 6.41 | 0.52 | 12.33 | 11.03 |
| | | 24.47 | 3.26 | 0.25 | 12.88 | 3.75 | | | | 12.91 | 0.70 | 18.36 | 18.86 | | | | 6.68 | 0.59 | 11.32 | 11.49 |
| **F** | 7.04 | 5.26 | 2.38 | 0.22 | 10.68 | 2.76 | **WF** | 6.71 | | 10.38 | 1.10 | 9.43 | 9.54 | **U** | 7.98 | | 9.23 | 0.41 | 22.51 | 15.88 |
| | 7.06 | 5.15 | 2.39 | 0.21 | 11.12 | 3.54 | | 6.71 | 7.78 | 9.68 | 1.01 | 9.57 | 12.58 | | | 6.43 | 8.97 | 0.34 | 26.38 | 15.43 |
| | | 6.00 | 2.30 | 0.21 | 11.12 | 3.23 | | | 7.73 | 9.28 | 0.96 | 9.63 | | | | 2.88 | 10.00 | 0.38 | 26.32 | 17.20 |
| **F** | 7.75 | 6.90 | 3.02 | 0.22 | 13.92 | 3.40 | **WF** | 7.21 | 3.66 | 5.26 | 3.00 | 1.75 | 5.46 | **U** | 6.56 | 8.80 | 7.42 | 0.23 | | 12.76 |
| | 7.70 | 6.67 | 3.24 | 0.26 | 12.25 | 4.45 | | 7.23 | 3.27 | 6.14 | 3.06 | 2.01 | 5.51 | | | 9.48 | 7.83 | 0.30 | 26.10 | 13.47 |
| | | 6.50 | 3.26 | 0.25 | 12.88 | 3.72 | | | 3.41 | 6.50 | 3.31 | 1.96 | 7.10 | | | 8.76 | 7.50 | 0.39 | 19.23 | 12.90 |
| **mean** | **7.43** | **18.53** | **7.12** | **0.44** | **14.64** | **8.58** | | **7.38** | **4.98** | **5.78** | **0.92** | **9.43** | **9.30** | | **7.66** | **11.89** | **5.86** | **0.37** | **15.53** | **10.08** |
| **st.dv** | **0.47** | **19.00** | **5.94** | **0.32** | **3.05** | **7.41** | | **0.43** | **1.80** | **4.54** | **1.04** | **6.77** | **4.42** | | **0.51** | **5.46** | **2.24** | **0.11** | **5.83** | **3.86** |