**Table S5.** Mean for soil attributes in the depth 0-5 cm across the study plots. Particle size distribution (clay, silt and sand in %), soil bulk density (ρb in g cm-3), soil particle density (Pd in g cm-3), soil organic carbon content (OC g Kg-1), saturated soil hydraulic conductivity (Ks in mm h-1), microporosity (Mic in cm3 cm-3), macroporosity (Mac in cm3 cm-3), total soil porosity (Pt in cm3 cm-3), initial volumetric soil water content (θi in in cm3 cm-3) and saturated volumetric soil water content (θs in cm3 cm-3). Study sites are abbreviated with RF for Reference Forest, APR for Assisted Passive Restoration, AR for Active Restoration, LiP for Low-intensity Pasture and HiP for High-intensity Pasture. The subscript number refer to plot numbers.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Site | Plot | Clay | Silt | Sand | *ρb* | *Pd* | *OC* | *Ks* | *Mic* | *Mac* | *Pt* | θi | θs |
| Reference Forest | RF1 | 24.4 | 28.4 | 47.1 | 1.00 | 2.68 | 15.2 | 225 | 0.30 | 0.33 | 0.63 | 0.20 | 0.55 |
| RF2 | 25.2 | 24.7 | 50.0 | 1.01 | 2.62 | 21.6 | 524 | 0.31 | 0.30 | 0.62 | 0.17 | 0.51 |
| RF3 | 26.3 | 26.6 | 47.0 | 1.08 | 2.66 | 14.2 | 198 | 0.34 | 0.25 | 0.60 | 0.16 | 0.44 |
| RF4 | 23.1 | 24.0 | 52.9 | 1.08 | 2.66 | 13.7 | 188 | 0.32 | 0.27 | 0.59 | 0.19 | 0.43 |
| Assisted Passive Restoration | APR1 | 31.6 | 31.3 | 37.0 | 1.01 | 2.68 | 20.4 | 397 | 0.30 | 0.28 | 0.62 | 0.22 | 0.43 |
| APR2 | 33.2 | 35.6 | 31.2 | 1.06 | 2.68 | 16.3 | 411 | 0.33 | 0.27 | 0.60 | 0.24 | 0.44 |
| APR3 | 30.6 | 31.3 | 38.1 | 1.03 | 2.68 | 15.4 | 326 | 0.29 | 0.30 | 0.61 | 0.28 | 0.54 |
| APR4 | 25.2 | 29.5 | 45.3 | 1.06 | 2.67 | 13.4 | 475 | 0.32 | 0.32 | 0.60 | 0.21 | 0.40 |
| Active Restoration | AR1 | 27.7 | 28.8 | 43.5 | 1.21 | 2.70 | 9.8 | 149 | 0.32 | 0.24 | 0.55 | 0.21 | 0.40 |
| AR2 | 30.5 | 22.5 | 47.0 | 1.15 | 2.68 | 8.3 | 418 | 0.27 | 0.26 | 0.57 | 0.22 | 0.38 |
| AR3 | 31.9 | 21.6 | 46.4 | 1.27 | 2.69 | 8.3 | 176 | 0.27 | 0.25 | 0.53 | 0.20 | 0.37 |
| AR4 | 29.9 | 22.7 | 47.3 | 1.14 | 2.66 | 14.9 | 272 | 0.29 | 0.26 | 0.57 | 0.18 | 0.37 |
| Low-intensity Pasture | LiP1 | 30.8 | 25.3 | 43.8 | 1.15 | 2.66 | 18.1 | 64 | 0.32 | 0.25 | 0.57 | 0.24 | 0.52 |
| LiP2 | 31.2 | 20.9 | 47.8 | 1.11 | 2.64 | 12.6 | 71 | 0.32 | 0.20 | 0.58 | 0.22 | 0.58 |
| LiP3 | 32.9 | 21.6 | 45.4 | 1.17 | 2.67 | 14.6 | 23 | 0.34 | 0.22 | 0.56 | 0.21 | 0.53 |
| High-intensity Pasture | HiP1 | 30.4 | 24.9 | 44.7 | 1.34 | 2.65 | 16.1 | 16 | 0.33 | 0.21 | 0.49 | 0.16 | 0.44 |
| HiP2 | 29.5 | 23.0 | 47.5 | 1.09 | 2.63 | 15.4 | 15 | 0.32 | 0.19 | 0.59 | 0.21 | 0.53 |
| HiP3 | 41.0 | 21.9 | 37.1 | 1.12 | 2.64 | 24.1 | 9 | 0.37 | 0.21 | 0.58 | 0.29 | 0.51 |

*Note.* For *ρb*, *Ks, Mic, Mac, Pt,* θi and θs the number of soil samples by plot was seven. For clay, silt , sand, *Pd* and *OC* the number of soil samples by plot was three.