

Supplementary Materials

Table S1. Average values of each soil property in the burned plots for each forest ecosystem type (shrubland, heathland and oak forest) and severity level (low, moderate and high).

Soil property	Severity	Shrubland	Heathland	Oak forest
<i>Physical</i>				
MWD (mm)	Low	1.41(0.36)	1.60(0.39)	1.86(0.53)
	Moderate	1.43(0.32)	1.76(0.38)	1.76(0.35)
	High	1.05(1.07)	0.76(0.36)	0.88(0.47)
<i>Chemical</i>				
pH	Low	5.22(0.77)	5.20(0.57)	5.70(0.86)
	Moderate	6.22(0.63)	4.63(0.60)	6.29(0.90)
	High	7.25(0.06)	6.76(0.66)	7.25(0.95)
Total C (%)	Low	6.54(2.83)	8.29(2.31)	14.16(7.96)
	Moderate	5.19(1.93)	15.91(9.73)	9.93(4.86)
	High	2.46(0.33)	4.51(2.06)	7.24(4.82)
TOC (%)	Low	6.42(2.88)	8.18(2.34)	13.18(7.82)
	Moderate	4.46(1.66)	15.70(9.65)	9.49(4.78)
	High	2.43(0.34)	4.44(2.05)	6.77(4.74)
TIC (%)	Low	0.11(0.10)	0.11(0.09)	0.98(1.37)
	Moderate	0.73(0.51)	0.20(0.16)	0.44(0.44)
	High	0.02(0.01)	0.07(0.08)	0.47(0.19)
Total N (%)	Low	0.50(0.20)	0.44(0.12)	0.83(0.36)
	Moderate	0.42(0.14)	0.81(0.40)	0.62(0.22)
	High	0.29(0.10)	0.37(0.16)	0.64(0.25)
Available P (mg kg ⁻¹)	Low	16.47(6.74)	38.76(56.67)	51.53(37.77)
	Moderate	30.12(19.50)	23.26(10.42)	44.32(27.38)
	High	45.80(3.72)	29.76(9.87)	126.05(98.86)
Na ⁺ (cmol kg ⁻¹)	Low	0.04(0.02)	0.07(0.04)	0.06(0.04)
	Moderate	0.04(0.02)	0.07(0.03)	0.07(0.03)
	High	0.05(0.00)	0.10(0.04)	0.08(0.04)
K ⁺ (cmol kg ⁻¹)	Low	0.38(0.23)	0.32(0.10)	1.00(0.67)
	Moderate	0.60(0.27)	0.57(0.43)	0.60(0.24)
	High	0.73(0.25)	0.52(0.24)	1.00(0.61)
Mg ²⁺ (cmol kg ⁻¹)	Low	0.76(0.64)	0.84(0.21)	3.68(1.63)
	Moderate	1.14(0.71)	1.12(0.61)	2.63(1.19)
	High	1.09(0.12)	1.00(0.54)	3.33(2.15)
Ca ²⁺ (cmol kg ⁻¹)	Low	2.29(2.01)	2.18(0.49)	10.80(4.75)
	Moderate	4.74(3.85)	2.64(1.09)	9.42(4.82)
	High	3.19(0.04)	2.83(2.37)	12.60(7.24)

CEC (cmol kg ⁻¹)	Low	4.12(2.76)	4.02(0.78)	17.88(7.22)
	Moderate	5.52(3.91)	6.33(3.46)	12.23(5.81)
	High	3.63(0.34)	3.42(1.65)	10.52(5.30)
<i>Biochemical</i>				
β-glucosidase (μmol <i>p</i> -NP g ⁻¹ dw soil h ⁻¹)	Low	2.33(1.10)	1.54(0.97)	2.45(1.28)
	Moderate	1.23(0.93)	1.31(0.87)	0.76(0.61)
	High	0.10(0.13)	0.09(0.13)	0.18(0.17)
Urease (μmol N-NH ₄ ⁺ g ⁻¹ dw soil h ⁻¹)	Low	5.01(3.05)	2.41(2.49)	6.73(5.30)
	Moderate	2.85(2.30)	1.99(1.59)	4.57(3.05)
	High	2.39(1.09)	1.39(1.19)	1.81(1.50)
Acid phosphatase (μmol <i>p</i> -NP g ⁻¹ dw soil h ⁻¹)	Low	4.89(1.93)	5.98(3.57)	13.95(10.29)
	Moderate	2.37(3.11)	9.96(8.41)	2.34(2.09)
	High	0.06(0.08)	0.34(0.25)	0.23(0.27)

The values in brackets correspond to the standard deviation. MWD (mean weight diameter); TOC (total organic C); TIC (total inorganic C); CEC (cation exchange capacity).