

1 **Table S1.** Micrometeorological characterization of experimental area (average $\pm$ standard
2 deviation)

Study zone	Tree density (trees/ha)	Canopy cover (%)	Fuel model	Wind friction coefficient	Temperature (°C)	Relative humidity (%)
Control (open area)	0	0	Mineral soil	1	15.10 (± 2.42)	38.73 (± 6.30)
Fuelbreak	165 (± 15)	21.56 (± 3.49)	Grasses	0.77 (± 0.39)	14.85 (± 2.67)	39.73 (± 6.94)
Experimental plots	541 (± 16)	68.65 (± 4.73)	Litter and grasses under canopy	0.40 (± 0.24)	12.27 (± 1.85)	45.6 (± 6.31)

7 **Table S2.** Reduction of wind speed under the canopy.

Position	Wind friction coefficient
Control	1
Under canopy (low bulk density areas)	0.31
Under canopy (high bulk density areas)	0.16

1 **Table S3.** Vertical profile of wind speed

Position	Wind speed (km/h)	Reduction (%)
Under canopy (at 6 m high)	0.92	Negligible
Under canopy (at 2 m high)	0.16	82.60

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6 **Table S4.** Wind speed increase in experimental plots due to wind valley and upslope wind

Position	Wind speed (km/h)	Reduction (%)
Mid-slope (altitude 674 m)	5.9	Negligible
Ridge top (altitude 731 m)	6.51	1.10
Ridge top and wind valley (altitude 725 m)	9.10	1.54

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