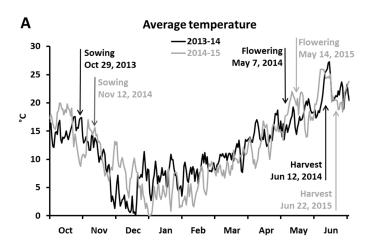
SUPPLEMENTARY INFORMATION

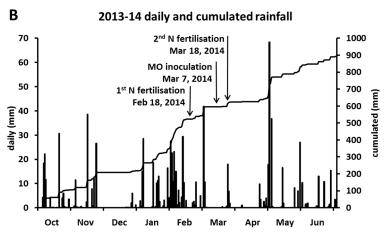
Table SI1. Root surface density (RSD) (mean±SE; n=3) at the flowering stage in the whole soil profile (0-1 m depth), the arable layer (0-0.4 m depth) and the subsoil (0.4-1 m) of inoculated (+MO) *Triticum aestivum* L. plants vs. non-inoculated controls at various N fertilization doses (80, 120 and 160 kg ha⁻¹) in a two-year field trial. Letters: significant differences among treatments within the same parameter and soil layer (Newman-Keuls test, $P \le 0.05$). In brackets: % variation in inoculated plants vs. non-inoculated controls at each N fertilization dose.

Variety	Tuestussus	RSD (cm ² cm ⁻³)										
(year)	Treatment	0-1	0-1 m			0-0.4 m				0.4-1 m		
Africa (2013- 14)		0.3 ± 0.0			0.5	±0.0			0.1	±0.0		
	80 N	0 1	a		7	4	a		3	1	ab	
		0.2 ± 0.0			0.5	±0.0			0.1	±0.0		
	80 N + MO	6 4	ab	(-14)	0	7	ab	(-13)	0	1	bc	(-19)
		0.1 ± 0.0			0.3	±0.0			0.1	±0.0	ab	
	120 N	9 3	c		2	5	c		1	1	c	
		0.2 ± 0.0	ab	(+29	0.4	±0.0		(+28	0.1	±0.0		(+31
	120 N + MO	5 2	c)	1	4	bc)	4	1	a)
		0.2 ± 0.0			0.3	±0.0			0.0	±0.0		
	160 N	1 2	bc		8	5	bc		9	1	c	
		0.2 ± 0.0	ab	(+21	0.4	±0.0		(+25	0.1	±0.0		(+12
	160 N + MO	5 1	c)	8	4	ab)	0	1	bc)
	Fertilisation		*				*				ns	
	MO											
	application		ns				ns				ns	
	Fert. x MO											
	app.		ns				ns				ns	
		0.4 ± 0.0			0.8	±0.0			0.2	±0.0		
	80 N	7 1	a		2	2	a		4	1	a	
		0.4 ± 0.0			0.7	±0.0			0.1	±0.0		
Bologn	80 N + MO	1 3	ab	(-12)	7	1	a	(-6)	8	5	ab	(-26)
a		0.4 ± 0.0			0.8	±0.0			0.1	±0.0		
(2014-	120 N	3 1				5				4		
15)		0.4 ± 0.0										`
	120 N + MO										ab)
		0.3 ± 0.0				±0.0						
	160 N	6 3	b		9	8	a		4	6	b	

160 N + MO	0.4 ±0.0 3 5 ab	`	7 ±0.1 5 1 a (+9)	0.2 ±0.0 1 2 ab	(+46)
Fertilisation MO	ns		ns	ns	
application Fert. x MO	ns		ns	ns	
арр.	ns		ns	ns	

ns = not significant; *, ** and *** = significance at $P \le 0.05$, $P \le 0.01$ and $P \le 0.001$, respectively.





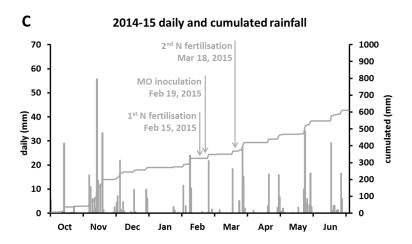


Figure SI1. Dynamics of seasonal daily mean temperatures (A) during the wheat crop cycle in both years of the trial, and daily and cumulated rainfall in the first year (B) and the second year (C) at the Legnaro experimental site (Padua, Italy).