

**S2 Table.** Variance partitioning of effects of year, cropping system, and fertilization on mean growing season soil temperature and water filled pore space (WFPS) to 10 cm.

	Water-filled pore space				Soil temperature			
	<i>F</i>	d.f.num	d.f.den	<i>P</i>	<i>F</i>	d.f.num	d.f.den	<i>P</i>
Fertilization (F)	19.1	1	6	0.005 **	5.4	1	6	0.059
Crop (C)	3.3	2	4	0.142	1.6	2	4	0.317
Year (Y)	61.8	1	84	<0.001 ***	197.2	1	84	<0.001 ***
F × C	0.5	2	6	0.633	2.0	2	6	0.216
F × Y	1.0	1	84	0.312	0.9	1	84	0.351
C × Y	4.2	2	84	0.018 *	0.1	2	84	0.869
F × Y × C	0.2	2	84	0.811	0.3	2	84	0.744

ANOVA based on a linear mixed effects model with a random effect of fertility treatment within plot within block. d.f.num is numerator degrees of freedom, d.f.den is denominator degrees of freedom.

\*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$