

Table S2. Variance analysis of soil properties after harvest under different cultivation patterns (F value)

Treatment	BD	PH	SWC	TN	NH ₄ ⁺ -N	NO ₃ ⁻ -N	TC	AP	AK
ANOVA Year(Y)	ns	ns	ns	76.96***	17.41***	27.62***	ns	9.38**	ns
Planting (P)	ns	49.16***	ns	22.43***	ns	323.43***	ns	170.06***	76.26***
N depth (D)	ns	100.02***	ns	ns	21.35***	142.82***	ns	343.47***	15.75***
P×D	ns	7.39*	ns	7.17*	ns	76.23***	ns	10.82**	ns
Y×P×D	ns	ns	ns	ns	ns	22.94***	ns	6.39**	4.27*

* p < 0.05, ** p < 0.01, *** p < 0.001. NS, no significance. BD = bulk density; SWC = soil water content; pH = pH value; TN = total nitrogen; NH₄⁺-N = ammonium nitrogen; NO₃⁻-N = nitrate nitrogen; TC = total carbon; AP = available phosphorus; AK = available potassium.