

Table 1 The Long pepper statistical table of different fertilizer treatment

No.	Conventional fertilization amount (T1)	Conventional fertilization-N (T2)	-30% Optimize fertilization-N (T3)	-30% Optimize fertilization N1 (T4)	-30% Optimize fertilization-N2 (T5)	-30% Optimize fertilization-N3 (T6)	-15% Optimize fertilization (T7)	-45% Optimize fertilization (T8)
Treatment codes	CF	CFN0	OPTN0	OPTN1	OPTN2	OPTN3	-15%	-45%
Urea	0.103	0.000	0.000	0.016	0.044	0.071	0.053	0.034
Crystal diammonium	0.102	0.031	0.013	0.029	0.029	0.029	0.035	0.023
Potassium sulphate	0.084	0.056	0.051	0.051	0.051	0.051	0.062	0.040
Total	0.289	0.087	0.064	0.096	0.124	0.152	0.151	0.097

Note: The combination of T1 and T2, T3 and T5 is the comparison of conventional fertilization and 30% reduction of fertilizer application, and the nitrogen utilization rate test. T1-t5, T7 and T8 combinations were used as controls for different fertilizer reduction tests. The treatment of T3, T4, T5, T6 combination is the nitrogen fertilizer dosage test based on the same amount of phosphorus and potassium