

Table 1 The descriptive statistics for phenotypes traits in maize varieties under different treatment

Treatment	Variety	Plant height (cm)	Ear height (cm)	Lodging rate (%)	Plot yield (kg)	Grain moisture content 1 (%)
Baochai	Zhendan 7137	281.8±7.5	90.6±3.6	0	18.6±2.0	25.7±3.3
	Zhendan 7153	245.2±6.6	90.4±5.3	0	14.9±3.9	28.1±0.6
	Zhendan 958	238.2±8.3	92.4±4.5	0	12.4±3.6	32.0±3.2
CK	Zhendan 7137	300.7±1.8	110.6±1.3	0.1±0.0	14.3±1.6	25.4±0.8
	Zhendan 7153	267.0±7.6	107.7±4.4	0	17.3±1.2	27.0±1.1
	Zhendan 958	239.4±6.0	99.8±5.6	0	10.2±1.6	31.3±1.4
Lingzhisu	Zhendan 7137	295.4±12.3	107.5±7.9	0.2±0.2	16.0±2.2	24.8±0.6
	Zhendan 7153	266.3±7.1	114.2±6.1	0	17.2±2.8	27.4±1.6
	Zhendan958	246.9±14.4	107.9±10.2	0	14.0±2.8	30.1±2.1