Table S2 Vertical distribution of maize root weight density under different treatments (2021–2022)

Year	Soil layer (cm)	Treatment			
		CK	CWC	DWC	DWCR
2021	0-10	3.34 ± 0.80a	4.09 ± 1.60a	4.49 ± 0.77a	4.39 ± 0.56a
	10-20	0.15 ± 0.04a	0.31 ± 0.09a	0.27 ± 0.09a	0.42 ± 0.20a
	20-30	0.08 ± 0.02a	0.19 ± 0.02a	0.16 ± 0.09a	0.11 ± 0.06a
	30-40	0.04 ± 0.01a	0.09 ± 0.01a	0.04 ± 0.01a	0.08 ± 0.06a
	40-50	0.02 ± 0.01a	0.06 ± 0.01a	0.03 ± 0.01a	0.03 ± 0.02a
	50-60	0.02 ± 0.01b	0.04 ± 0.01a	0.02 ± 0.01b	0.02 ± 0.01b
2022	0-10	6.15 ± 0.72a	5.40 ± 1.01a	3.90 ± 0.28a	4.79 ± 0.74a
	10-20	2.06 ± 0.27a	1.77 ± 0.26ab	1.02 ± 0.15b	2.04 ± 0.23a
	20-30	0.77 ± 0.11ab	0.86 ± 0.19ab	0.72 ± 0.34b	1.52 ± 0.20a
	30-40	0.61 ± 0.06a	0.71 ± 0.23a	0.41 ± 0.12a	0.83 ± 0.27a
	40-50	0.50 ± 0.01a	0.32 ± 0.02a	0.27 ± 0.03a	0.42 ± 0.15a
	50-60	0.37 ± 0.05a	0.22 ± 0.03ab	0.09 ± 0.04b	0.30 ± 0.14ab

Note: Values are mean ± SE (n=3 plant per plot). CK, conventional flat planting; CWC, a traditional ridge-furrow system; DWC, a double ridge-furrow system; DWCR, the double ridge-furrow system with infiltration holes. Within a column and year, means followed by different lowercase letters are significantly different at $P < 0.05$ (Tukey's HSD test).