



Supplemental Materials

Figure S1 The relationship between the values of $EC_{1:5}$ and soil salt content.

Figure S2 Soil water content changes with soil depth under film-mulched drip irrigation at dry sowing and wet emergence stages for the humic acid (H), biochar-based microbial agent (M), and vermicompost (V) synergistic effect in 2021.

Figure S3 Soil water content changes with soil depth under film-mulched drip irrigation at dry sowing and wet emergence stages for the humic acid (H), biochar-based microbial agent (M), and vermicompost (V) synergistic effect in 2022.

Figure S4 Soil water content changes with soil depth under film-mulched drip irrigation at dry sowing and wet emergence stages for the humic acid (H), biochar-based microbial agent (M), and vermicompost (V) synergistic effect in 2023.

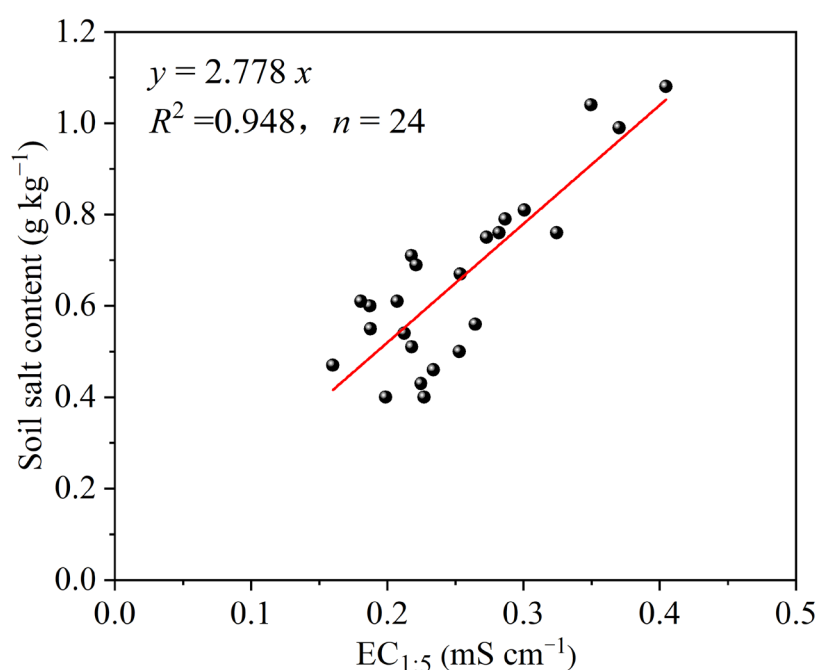


Figure S1. The relationship between the values of $EC_{1:5}$ and soil salt content.

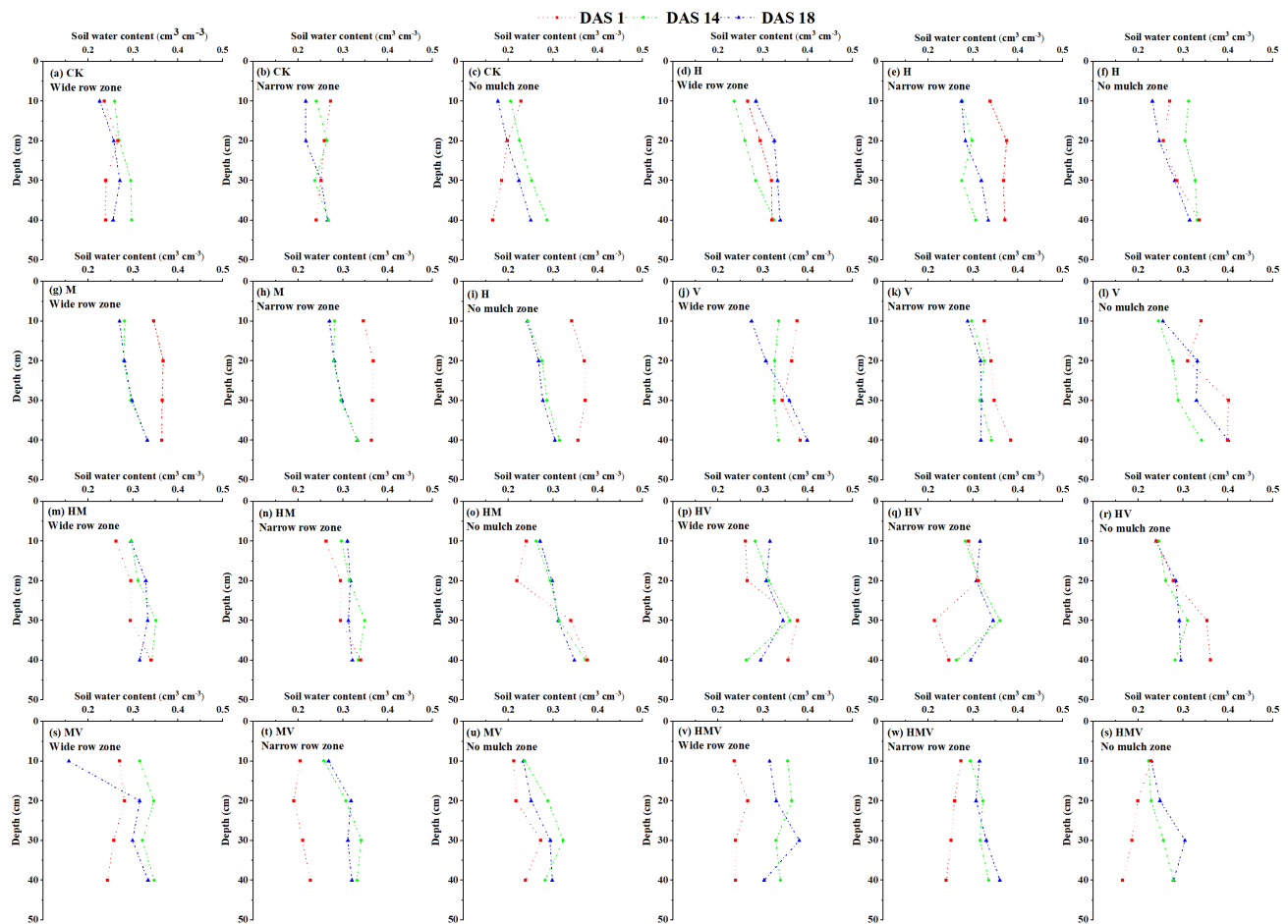


Figure S2. Effects of humic acid (H), biochar-based microbial agent (M), and vermicompost (V) treatment on soil water content at 0–40 cm in dry sowing and wet emergence stages under film drip irrigation in 2021.

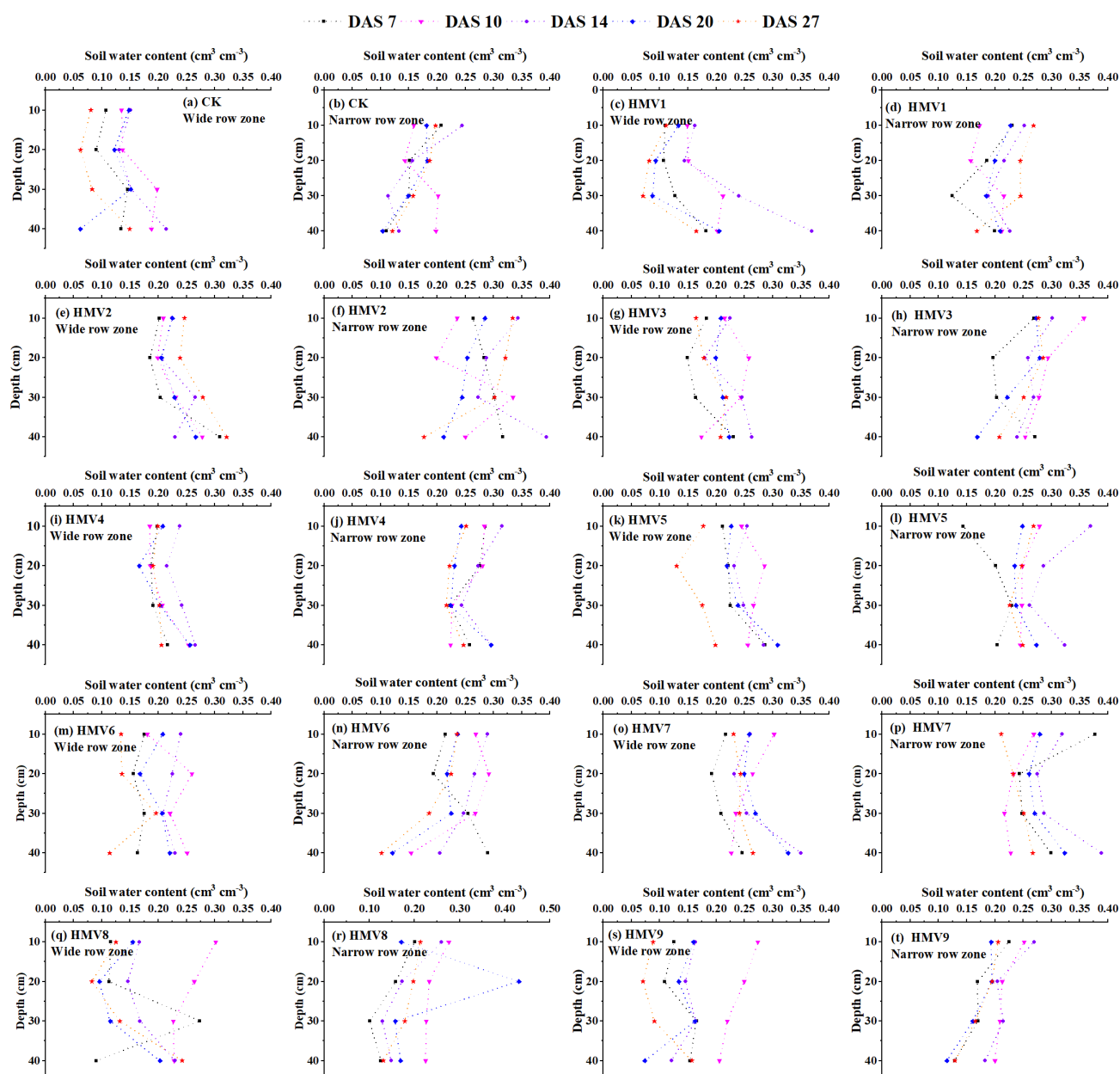


Figure S3. The synergistic effect of humic acid (H), biochar-based microbial agent (M), and vermicompost (V) on the 0–40 cm soil water content in the dry sowing and wet emergence stages of drip irrigation under the film in 2022.

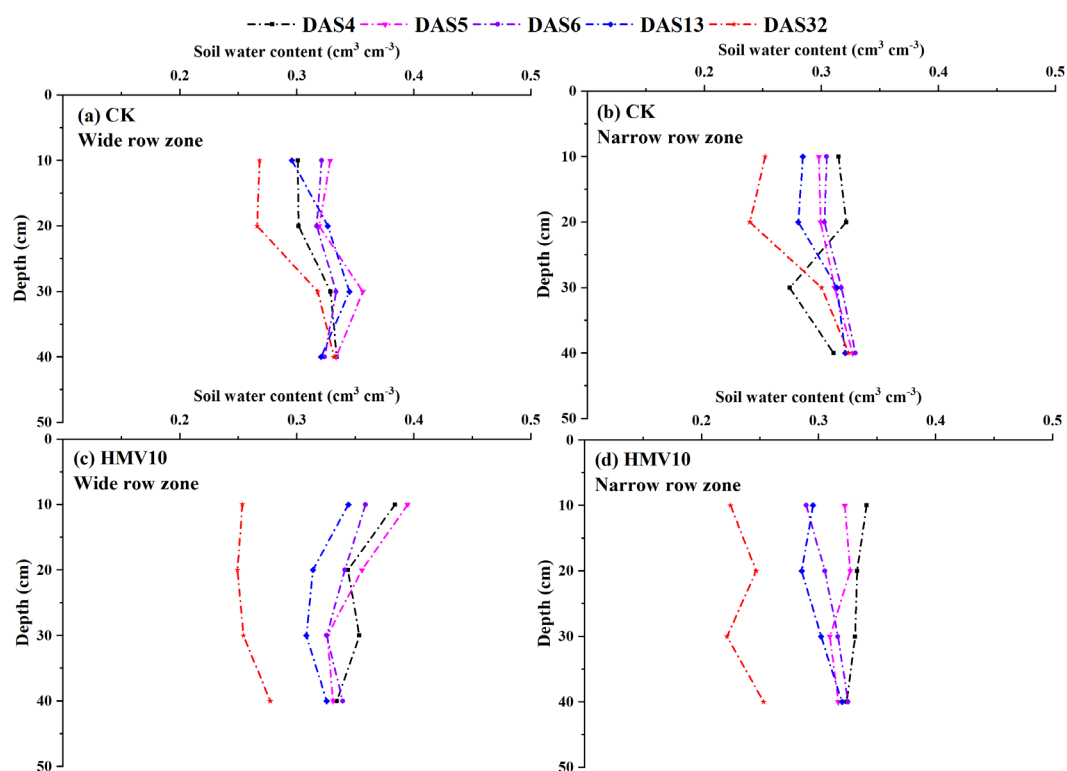


Figure S4. The synergistic effect of humic acid (H), biochar-based microbial agent (M), and vermicompost (V) on the 0–40 cm soil water content in the dry sowing and wet emergence stages of drip irrigation under the film in 2023.