# The degree and depth limitation of deep soil desiccation and its impact on xylem hydraulic conductivity in dryland tree plantations

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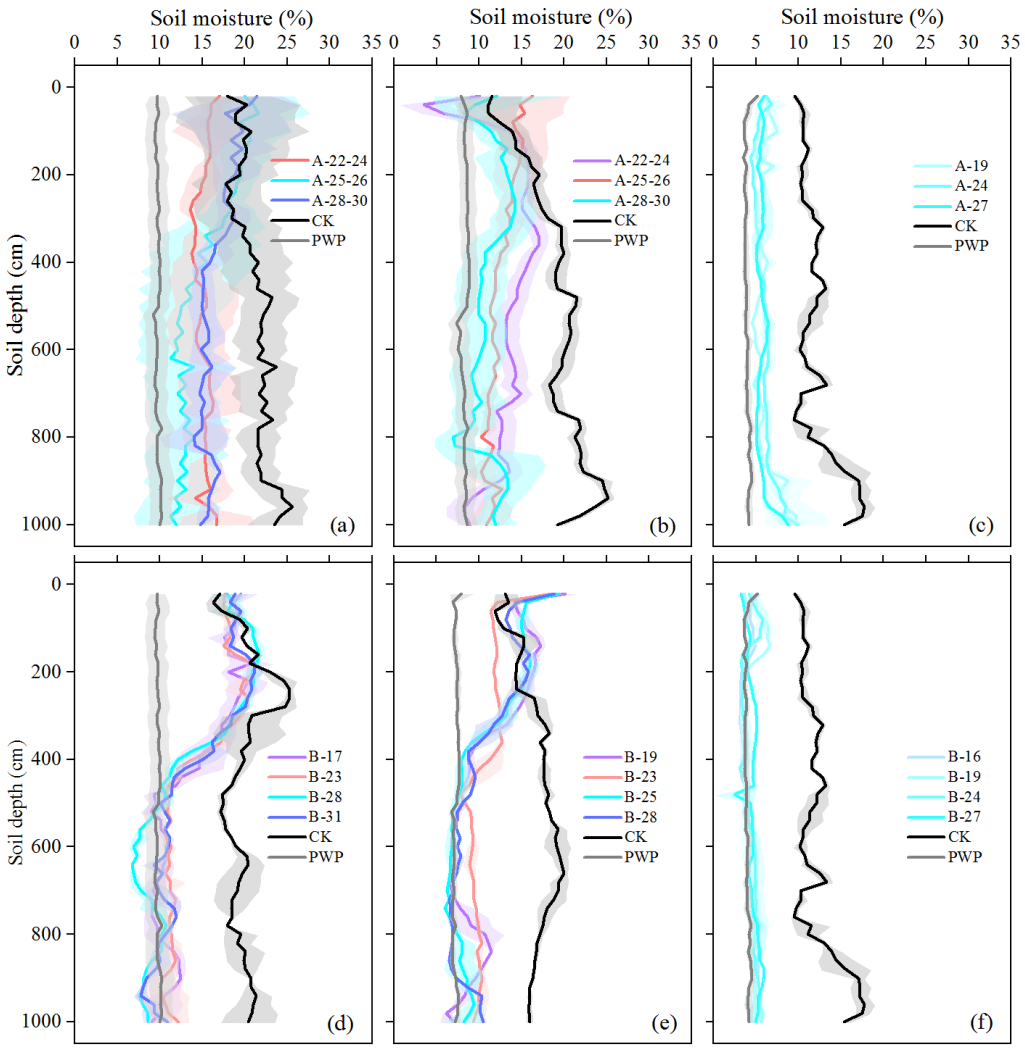


**Figure S1:** Soil moisture distribution under apple orchards of different ages in Changwu (a), Luochuan (b) and Mizhi (c), respectively; and black locust forests of different ages in Changwu (d), Yan'an (e) and Mizhi (f). The capital letters A and B in the legend represent apple and black locust, respectively, and the numbers after the letters represent tree age, for example, A-22 represents 22-year-old apple. CK represents soil moisture of grassland or farmland adjacent to plantations. In order to reduce the randomness of the literature data, the data for apples with similar ages in Changwu and Luochuan were combined to analysis. The gray line indicates the permanent wilting points (PWP) at each sampling site.

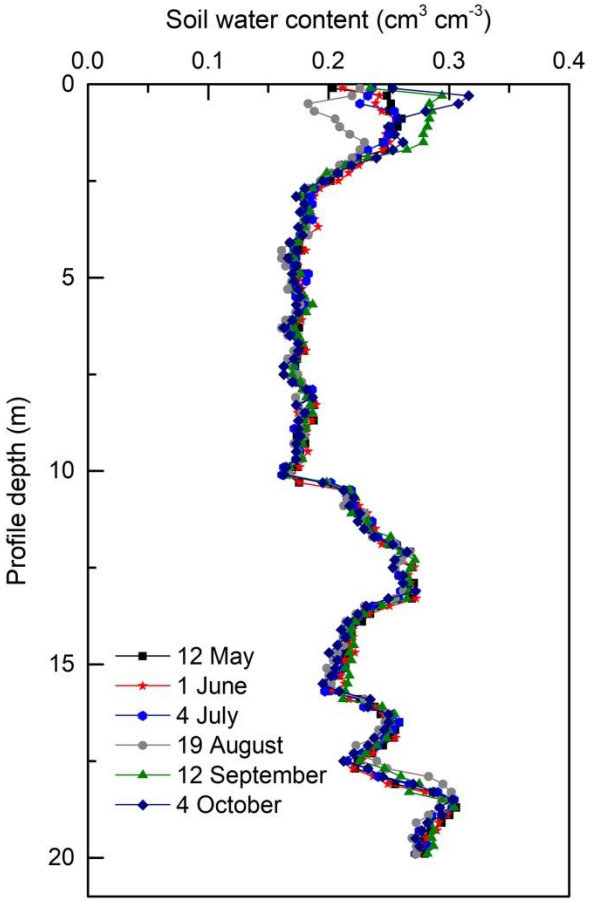


**Figure S2:** Soil water content from Li et al. (2019)