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黄土塬区不同土地利用方式土壤水分消耗与补给变化特征

王艳萍^{1,2}, 王 力^{1,2,*}, 韩 雪¹, 杨文强¹

1 西北农林科技大学资源环境学院, 杨凌 712100

2 西北农林科技大学黄土高原土壤侵蚀与旱地农业国家重点实验室, 杨凌 712100

摘要: 对黄土塬区不同土地利用方式下 2012 年 3—10 月 7 龄果园(挂果初期)、17 龄果园(盛果期)、小麦地、玉米地土壤水文状况进行分析, 结果显示 0—600 cm 试验土层 7 龄果园土壤贮水量最高, 其次为玉米地、小麦地, 17 龄果园最低, 且不同土地利用方式下贮水量随着降水量的变化而上下波动, 但其变化滞后于降水。不同土地利用方式均表现为随土壤深度增加土壤含水量变异程度减弱的特征, 且其土壤剖面的水分含量变化存在季节变异。农田和 7 龄果园中不存在土壤干燥化现象, 而 17 龄果园土壤剖面存在较厚的干燥化土层, 其分布深度为 320—600 cm。不同的土地利用方式的土壤水分的消耗和补充深度有较大差异, 17 龄果园消耗深度为 500 cm, 补充深度为 200 cm; 7 龄果园、玉米地和小麦地消耗深度分别为 200、300 cm 和 300 cm, 且补充深度均超过了测定的土壤深度, 大于 600 cm。

关键词: 土壤含水量; 土壤干层; 消耗和补充深度; 土地利用方式

Dynamics of soil moisture depletion and replenishment in different land use types of the Loess Tableland

WANG Yanping^{1,2}, WANG Li^{1,2,*}, HAN Xue¹, YANG Wenqiang¹

1 College of Resources and Environment, Northwest A&F University, Yangling 712100, China

2 State Key Laboratory of Soil Erosion and Dryland Farming on the Loess Plateau, Northwest A&F University, Yangling 712100, China

Abstract: Soil moisture has large impacts on agricultural production and regional ecosystems. The Loess Tableland was selected as the study area, and the characteristics of soil moisture in different land use types were measured and analyzed from March to October 2012. The objectives of this study were to characterize the dynamic changes in soil water, determine the soil moisture depletion and replenishment depths, and compare the differences in water consumption under the different land uses. The results showed that: (1) Soil moisture content recorded in the 0—600 cm layer in a 7-year-old apple orchard was the highest, followed by that in a corn field, wheat field, and a 17-year-old apple orchard. Soil moisture contents in different land use types had the same variation trends as precipitation during the observation period, but their responses lagged changes in precipitation. (2) Soil moisture variation declined with increasing soil depth in different land use types. The variation in surface soil water content was greater than that of deep soil water content because the surface layer (0—100 cm) was influenced by multiple processes, including rainfall infiltration, soil evaporation, and plant root water uptake. Soil moisture was less affected by outside conditions as soil depth increased; therefore, soil moisture tended to be relatively stable. In addition, because of complicated functions of plant growth regulation and local phenological

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* 通讯作者 Corresponding author. E-mail: wangli5208@nwsuaf.edu.cn

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Restoration and Development of the Degraded Loess Plateau, China Atsushi Tsunekawa,Guobin Liu,Norikazu Yamanaka,Sheng Du,2013-08-23 This book presents state of the art scientific evidence and technological innovations to restore lands on the Loess Plateau of China known worldwide for its serious land degradation and desertification problems Supported by a rapidly developing Chinese economy and the dissemination of effective technology the Grain for Green Project and Western Development Action launched by the Chinese government have resulted in successful ecological restoration and protection over the past 30 years These programs have contributed not only to conservation of soil and water but also to economic development At the same time however these developmental interventions have brought new challenges that have not yet been fully addressed The book describes 1 case studies of success and failure in practice including rare success stories of combating desertification 2 technical issues such as erosion control and breeding of stress tolerant plant species and socioeconomic measures taken by the Chinese government and lending policies with support from the World Bank and 3 comprehensive measures against desertification such as water and wind erosion salinization and deforestation This volume is recommended for researchers and students above the undergraduate level in diverse fields including soil science rural engineering social technology and civil engineering biology ecology climatology physical and human geography and developmental economics among others It also serves as a valuable resource for engineers government officials and NPOs and NGOs involved in afforestation ecological restoration combating desertification disaster prevention and sustainable rural development Land Use and Sustainable Development in Loess Plateau, North China China Council for International Cooperation on Environment & Development,1999

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