

水与“楚门文旦”生长发育和裂果的关系

The Relationship between Water Supply and Fruit Cracking of Chumen Pomelo (*Citrus Grandis Osbeck*)

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中文摘要:

为探索防止“楚门文旦”裂果的方法,分析了已取得的研究成果,和裂果的诸多相关因子指出果园气候异常,空气相对湿度和土壤持水量是影响裂果最明显的因素,防止文旦裂果的有效途径(特别对已种植的数万亩文旦园)是实施对文旦果园土壤水分和空气相对湿度的调控,以满足不同生长发育期对水分和湿度的合理需求。提出在现有深沟排灌的基础上增设微量喷灌,利用单片微处理机技术,建成最佳的给排水自动调节系统,具有明显的经济和社会效益。

英文摘要:

An overview in fruit cracking of Chumen Pomelo was given, and some factors related to the fruit cracking were analyzed. It was found that the main causes of fruit cracking were the air relative humidity (RH) and the soil water-retaining capacity. The effective measure to avoid fruit cracking is to control RH and the soil moisture content in the pomelo orchard to meet the demands in pomelo fruit development. It is suggested that a microsprinkling irrigation system, set in the available irrigation and drainage ditch and controlled by a monolithic microprocessor, could work in optimal water supply.

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