

园艺—研究报告

天水桃气候适宜性变化研究

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摘要:

运用甘肃省天水农业气象试验站2003—2010年桃物候观测资料及1971—2010年气象资料,建立桃生长发育的气候适宜性评价模式,分析了该地区气候变化特征及气候变化对桃生长发育的影响。结果表明,1971—2010年天水市气温线性增加明显,降水量呈周期变化。桃综合气候适宜度较高为0.59,温度适宜度为0.73,水分适宜度为0.47。近年来,萌芽开花阶段温度适宜度呈线性增加趋势,水分适宜度呈降低趋势。温度、水分适宜度反相关性显著。果实膨大阶段及果实成熟期,温度、水分适宜度均呈下降趋势。温度、水分适宜度变化比较一致。桃的后期生长环境条件变差趋势明显。水分适宜度明显低于温度适宜度,在建立桃园时应考虑关键生育时段的水分补充设施的建设。

关键词: 气候适宜性

A Studying on Climate Suitability of Peach in Tianshui

Abstract:

Based on data of peach's phenological observation from 2003 to 2010 and meteorological data from 1971 to 2010 in the Agrometeorological Experimental Station of Tianshui, the model for assessing the climate suitability had been set up and the variation characteristics of climate and their influence on growth of peach had been studied. The results showed that the annual mean temperature had increased with linearity and precipitation varied with periodicity. The synthesized climate suitability degree was 0.59, temperature suitability degree was 0.73 and water suitability degree was 0.47. It indicated that the temperature suitability degree increased and water suitability degree decreased in sprout and flowering period in recent years. There was significant minus correlation between temperature and water suitability degree in this growth period. The water and temperature suitability degree was on a declining curve in fruit expansion and maturation period. It showed that the condition of peach growth became worse in the later period. The temperature suitability degree was above the water suitability degree. We suggested that facility for supplying water in key growth stage of peach should be considered when we plan to build orchard.

Keywords: climate suitability

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