

农村发展—生态资源环境

本溪山区气候变化与主要农业气象灾害的响应

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摘要:

摘要: 利用本溪地区1953—2008年温度、降水和主要农业气象灾害资料, 根据农业气象学原理和农业气象灾害指标, 整理、统计、分析相应的气象要素。采用气候倾向率和Mann—kendall方法对资料进行处理分析。结果表明: 本溪山区温度和降水年代际间发生了较大变化。气温呈升温趋势, 降水变化呈减少趋势。暴雨日数呈现减少趋势变化, 但是灾害损失呈现增加趋势, 洪涝频率减少, 干旱频率增加。通过对气候变化与主要气象灾害研究, 为合理开发山区气候资源, 调整产业结构提供科学的气象依据。

关键词: 关键词: 气候变化 农业气象灾害 本溪山区

Climatic Change and Response of Main Agrometeorological Disaster in Benxi Mountainous Area

Abstract:

Based on the temperature, precipitation and the main agrometeorological disaster data from 1953 to 2008 in Benxi, according to the principle of agrometeorology and index of agrometeorological disaster, the meteorological elements were combined, statisticed and analyzed. The variability features were studied by applying the method of climate tendency rate and Mann-kendall. The result that the temperature changes presented increasing trend. Precipitation changes showed a decreasing trend. The tendency ratio of annual mean temperature was 0.29°C/10a, The tendency ratio was biggest for 0.61°C/10a in winter. The tendency ratio of annual precipitation was -26.11 mm/10a, precipitation tendency ratio was 2.88 mm/10a in spring, while it was decreasing in other seasons, and the tendency ratio of rainstorm was decreasing, but the disaster loses increases the tendency. The flooding frequency reduced, the arid frequency increased. Through studies to the climatic change and the main meteorological disaster, for the reasonable development climatic resource, the adjustment industrial structure provided the science the meteorological basis.

Keywords: climate change agrometeorological disaster Benxi mountainous area

收稿日期 2010-08-19 修回日期 2010-10-19 网络版发布日期 2011-04-15

DOI:

基金项目:

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