

简报

1953—2005年本溪地区气候变化及其对农业生产的影响

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摘要 利用1953—2005年本溪地区温度和降水资料,运用统计学方法对20世纪80年代前后本溪地区的气候变化特点进行了研究。结果表明:近50多年来,本溪地区的年各季平均气温呈波动性上升趋势,平均气温倾向率为0.28℃/10 a,冬季最大为0.54℃/10 a;年降水量和各季降水量呈波动性减少趋势,年降水量倾向率为-31.67 mm/10 a,春季倾向率为1.54 mm/10 a,其他各季倾向率均为负值;水热匹配条件趋于恶化,干旱发生频率增大。同时,分析了气候变化对农业生产的影响,为合理利用本地气候资源提供参考依据。

关键词 [气候变化](#) [趋势分析](#) [农业生产](#)

分类号

Climate change and its effect on agricultural production in Benxi from 1953 to 2005

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Abstract Based on temperature and precipitation data from 1953 to 2005 in Benxi, the characteristics of climate change were analyzed by statistic method. The results indicate that annual mean temperature in different seasons takes on a fluctuant rising trend, whose tendency ratio is 0.28 °C/10 a. The largest tendency ratio is 0.54 °C/10 a in winter. The annual and seasonal precipitations take on fluctuant descending trends. And the tendency ratio of annual precipitation is -31.67 mm/10 a. Precipitation tendency ratio is 1.54 mm/10 a in spring, while it is negative in other seasons. The drought occurs frequently because of the worse heat and moisture conditions. At the same time, the influences of climate change on agricultural production were also analyzed, in order to provide the basis for reasonable utilization of local climate resources.

Key words [Climate change](#) [Trend analysis](#) [Agricultural production](#)

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