

[1]吴荣军,史继清,关福来,等.干旱综合风险指标的构建及风险区划——以河北省冬麦区为例[J].自然灾害学报,2013,01:145-152.

WU Rongjun,SHI Jiqing,GUAN Fulai,et al.Integrated index construction and zoning of drought risk:a case study of winter wheat area in Hebei Province[J].,2013,01:145-152.

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干旱综合风险指标的构建及风险区划 ——以河北省冬麦区为例

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2013年01期 页码: 145-152 栏目: 出版日期: 2013-07-18

Title: Integrated index construction and zoning of drought risk:a case study of winter wheat area in Hebei Province

作者: [吴荣军¹](#); [史继清¹](#); [关福来²](#); [姚树然²](#)

1. 南京信息工程大学 环境科学与工程学院,江苏 南京 210044;
2. 河北省气象科学研究所,河北 石家庄 050021

Author(s): [WU Rongjun¹](#); [SHI Jiqing¹](#); [GUAN Fulai²](#); [YAO Shuran²](#)

1. School of Environmental Science and Engineering, Nanjing University of Information Science & Technology, Nanjing 210044,China;
2. Hebei Institute of Meteorological Science, Shijiazhuang 050021,China

关键词: [干旱](#); [冬小麦](#); [自然水分亏缺率](#); [风险区划](#)

Keywords: [drought](#); [winter wheat](#); [natural water deficit rate](#); [risk zoning](#)

分类号: S16

DOI: -

文献标识码: -

摘要: 以河北省冬小麦种植区为例,基于自然水分亏缺率指数、降水距平百分率指数和抗旱指数,构建了干旱风险综合指标,并开展了风险区划;同时,利用冬小麦单产减产百分率和该区域历史旱灾发生频次资料,比较并验证了干旱风险综合指标和风险区划结果。结果表明,所构建的干旱风险综合指标适用于冬小麦的干旱风险区划,对于冬小麦因旱灾造成减产的风险评估和预测具有一定的参考价值。

Abstract: Taking winter wheat growing areas in Hebei Province as example, and based on the natural water deficiency rate index, precipitation anomaly percentage index and drought resistance index, this paper constructed an integrated drought risk index, and carried out risk zoning. Also, by use of the percentage reduction of the yield of winter wheat due to drought and the regional historical drought occurrence frequency, the paper compared and validated the integrated drought risk index and risk zoning results. The results showed that the constructed integrated drought risk index in this paper is applicable for winter wheat drought risk zoning, and could give a reference to risk assessment and prediction of yield reduction of winter wheat caused by drought.

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备注/Memo: 收稿日期:2012-5-12;改回日期:2012-8-10。

基金项目:"十二五"国家科技支撑计划 项目(2011BAD32B04)

作者简介:吴荣军(1975-),副教授,博士,主要从事农业气象灾害和污染生态学研究.E-mail: wurj@nuist.edu.cn

更新日期/Last Update: 1900-01-01