

研究论文

全球气候变化影响我国冬小麦生产之前瞻

金之庆, 方娟, 葛道阔, 郑喜莲, 陈华

江苏省农科院农业现代化所, 江苏南京, 210014

收稿日期 1991-10-31 修回日期 1992-10-30 网络版发布日期 接受日期

摘要 将作物模型与大气环流模型(GCM)耦合, 评价未来气候变化对我国冬小麦生育期、产量和灌溉需要量的影响, 并采用一种农业经济模型, 就研究区域未来冬小麦总产的变化进行估计; 还根据若干农业所气候指标, 分析当CO₂倍增时研究区域冬小麦生长期干湿状况的改变, 种植界线可能发生的地理位移, 以及品种布局和种植制度的演进趋势等; 最后提出为适应气候变化而应采取巧的若干战略对策。

本文的结果不是一种预测, 应将其理解成是对今后气候变化影响我国冬小麦生产的范围和程度加以合理的估计。

关键词 [气候变化, 冬小麦生产](#)

分类号

Prospect to the Impacts of Climate Change on Winter Wheat Production in China

Jin Zhi-qing, Fang Juan, Ge Dao-kuo, Zheng Xi-lian, Chen Hua

Institute of Agricultural Modernization, Jiangsu Academy of Agricultural Sciences, Nanjing, 210014

Abstract Using an approach linking the crop model to the General Circulation Models (GCM), the impacts of climate change with a doubling of CO₂ on growth duration, yield and irrigation demand for winter wheat in China were evaluated. Also, the change in overall output of winter wheat in the studied regions was estimated, by employing an agro-economic model. The authors further adapted several agroclimatic indices to analyze the changes in moisture status, the northern and southern distributing limits, varietal disposition, as well as the cropping systems for winter wheat in the regions concerned. Finally, several strategies were advanced for adapting the climate change in future. The results should not be regarded as predictions, but as plausible assessments of potential effects of climate change on winter wheat production in China.

Key words [Climate change](#) [Winter wheat production](#)

DOI:

通讯作者 金之庆

扩展功能

本文信息

▶ [Supporting info](#)

▶ [PDF\(766KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

相关信息

▶ [本刊中包含“气候变化, 冬小麦生产”的相关文章](#)

▶ 本文作者相关文章

· [金之庆](#)

· [方娟](#)

· [葛道阔](#)

· [郑喜莲](#)

· [陈华](#)