

2018 年度第一回エコヘルス研究会

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場所：インキュベーション室

言語：英語

RESEARCH on EFFECT of CLIMATE CHANGE on RAPESEED PRODUCTION in CHINA with APSIM

The agricultural production system is a dynamic system which was influenced by many other factors, such as weather, soil, variety and cultivation management. It is very difficult for the producers to comprehensively consider interaction between these factors, to forecast the trend of agricultural production and to quantify these factors on the influence of crop production. Crop growth simulation model provides a new method, which is a quantitative description of the crop growth and development process and the interactive relations between the environment and cultivation technology. Based on the APSIM - rapeseed and GIS, we have analyzed the trend of climate elements during the growth period of rapeseed from 1951 to 2017, and discussed the effects of the future climate change and planting managements on rapeseed growth and yield in China.