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Title: Advances in research on major agro-meteorological disaster indexe in China

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摘要: 由于我国气候复杂,作物在其生育期间经常会遭遇农业气象灾害,其中干旱、低温冷害、寒害和高温热害是我国常见的农业气象灾害。针对这4种灾害,归纳了其常用的灾害判别指标,并对各种指标的优劣、界定范围及其在各领域的主要用途进行了总结,同时也对目前灾害指标存在的问题和改进的方向提出了看法,为今后进一步改进灾害指标及各类灾害的监测评估及防灾减灾工作提供参考。

Abstract: Owing to the complexity of climate conditions,agro-meteorological disasters is more frequent during crops' growing period in China.there are mainly four sorts of agro-meteorological disasters—drought,cool damage,chilling injury and hot damage.In the light of climate change and constant improving agricultural production technologies,further research on agro-meteorological disaster index is necessary.On the basis of the published researches,this paper summarizes and improves the indexes used to define the four disasters and discusses the advantages and disadvantages of each index.In addition,the range of each index and their use in different fields were discussed.This paper tries to provide a foundation in disasters supervision and assessment,as well as supplies a reference to preventing and mitigateing the disasters.Research trend is also put forward to improve the applicability of the indexes in China.

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