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Title: Risk zoning of cold damage to banana in Hainan Island

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关键词: [香蕉](#); [寒害](#); [自然灾害风险理论](#); [风险区划](#); [海南岛](#)

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摘要: 依据自然灾害风险分析理论和海南岛历年气候、DEM、耕地面积、香蕉种植面积和产量资料,借助GIS技术,对海南岛香蕉寒害的致灾因子危险性、孕灾环境敏感性、易损性和防寒抗灾能力进行了分析和区划,在此基础上建立了综合的香蕉寒害风险指数,并将该指数应用于海南岛香蕉寒害的风险区划.结果表明,海南岛中部为香蕉寒害高和次高风险区,东部和南部为香蕉寒害次低和低风险区,其余地区为中等风险区.

Abstract: Based on risk analysis theory of natural disasters and data of climate, DEM, cultivated area, banana planting area and yield of Hainan Island over years and GIS technology, the hazard of disaster-causing factors, sensitivity of disaster-pregnant environments and vulnerability and disaster prevention ability against cold damage to banana in Hainan Island were analyzed and zoned. Furthermore, a comprehensive risk index model of cold damage to banana was constructed to divide the risk zone of cold damage to banana in Hainan Island. Results show that the highest and second-highest risk zones of cold damage to banana are located in the middle areas of Hainan Island, while the lowest and second-lowest risk zones are located in the eastern and southern areas.

参考文献/REFERENCES

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