

Evaluation of drought risk perception and emergency behavior model

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Abstract

To enable the government and local authorities to anticipate the public’s response to emergency measures, it is crucial to formulate theories on residents’ behavioral reactions and establish appropriate evaluation models that cater to local conditions. However, prior research has primarily relied on simple surveys to assess individual disaster preparedness progress, while in the United States, the National Household Survey explores the behavior, attitudes, and motivations of citizens. Nonetheless, relying on simple survey analyses presents limitations. Therefore, our study aims to develop a social science behavioral analysis model that includes risk perception and emergency preparedness evaluation items for drought. We will achieve this by examining both domestic and foreign behavioral models. The ultimate goal is to present an effective response strategy for managing drought risk that incorporates the developed model. The drought risk perception and behavioral model employed in this study involves evaluating individual risk perception of drought disasters, individual effectiveness, and motivation analysis for drought disasters, government satisfaction with drought disaster management, and individual acceptance of drought prevention policies.

Keywords : Drought, Behavior models, Emergency preparedness, drought risk perception

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