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ComGIS-Based Early Warning System of Rural Drinking Water Safety in Ya' an City of Sichuan, China

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ABSTRACT

According to characteristic index of spatial-temporal variability of rural drinking water safety in Ya' an City of Sichuan, China, such as water quantity, water quality, convenience degree and guaranteed rate, etc., this study elaborated the basic framework, model' s methodology structure in early warning system of rural drinking water safety on the basis of ComGIS and initially designed information collection, search and retrieval, evaluation and analysis of factors, dynamic prediction and dynamic early-warning and functions of guidance and management in this system. The design of this system provided scientific basis to grasp the state of rural drinking water safety timely, release early warning information and properly take necessary control measures, etc. The evaluation results showed that the overall trend was getting better. It proved that the rising pressure value and response value were main reasons which caused the rising evaluation value of rural drinking water safety.

KEYWORDS

Water Quality, Status Early Warning, Trending Early warning, Rural Drinking Water Safety, Ya' an, ComGIS

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