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EVALUATING THE VULNERABILITY OF AGRICULTURAL ECO-ECONOMIC SYSTEM IN A DEVELOPED REGION: A CASE STUDY OF JIANGSU PROVINCE, CHINA

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Abstract

Based on a detailed discussion about the conception of vulnerability of agricultural eco-economic system (VAEES), an evaluation index system of the VAEES was constructed, and the analytic hierarchy process (AHP) was used to evaluate the expose-sensitive degree and restore-coping ability of the VAEES. Taking Jiangsu Province as an example, the VAEES during the period 1997–2007 was analyzed. Meanwhile, the 13 cities that belong to Jiangsu Province were compared with each other. The results indicated that the VAEES of Jiangsu Province has shown a declining trend since 1997. In the three trends, 1997–1999, 2000–2005, 2006–2007, three phases, continual decrease, cyclical fluctuations, and continual decrease, were identified, respectively. The regional differences of VAEES are significant. According to the different characteristics, the 13 cities can be divided to three types: high-low-high, low-high-low, and low-low-high. There are certain complexities between the VAEES and regional socio-economic development level. Finally, some suggestions on further studies, policy suggestions, and the deficiency of the current paper were put forward.

Key words: agricultural eco-economic system, assessment, Jiangsu Province, vulnerability

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