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## ***Interactive comment on* “Evaluation of social vulnerability to floods in Huaihe River basin: a methodology based on catastrophe theory” by W. J. You and Y. L. Zhang**

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Vulnerability indexes are important to the evaluation. So we choose the vulnerability indexes based on the method of conventional. According to Cutter’s place-hazard model and the cycle theory of emergency management, social vulnerability index system is created from three dimensions of population, economy, and flood prevention, which contained 35 indexes. While, large index system should have many redundancies, the PCA method can be used to remove redundancies between the indexes. Then, we got a sensitivity index system which can represent original indexes.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 4937, 2015.

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