

sustainable development of this area. According to the serious drought and water saving agriculture development in hilly area of Sichuan Province, assess index system on water saving agriculture benefit have been research on. Which consists of 4 subsystems, 3 groups, and 24 assessment indexes, were successfully constructed. Based on the fuzzy theory and the linear programming, the fuzzy analytic hierarchy model was established using the VB language and the WINDOWS Interface, and the software names as "Water saving Agricultural Benefit Appraisal System V1.0" was developed. Benefit evaluations of water saving agricultural development on typical rolling region in Sichuan, such as Jianyang city, Sancha Reservoir Irrigation Area and "863" (National High Technology R and D Program) water saving agriculture demonstration area, were carried. The results indicated that the appraisal system and the software have high theory value and broad application value because they are science, practical and easy to use.

Key words: water saving agriculture; benefit evaluation; index systems; evaluation model; hilly area

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