Hydrol. Earth Syst. Sci. Discuss., 11, C30–C31, 2014
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Hydrology and Earth System Sciences
Discussions

Interactive comment on "A dual-inexact fuzzy stochastic model for water resources management and non-point source pollution mitigation under multiple uncertainties" *by* C. Dong et al.

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Received and published: 28 January 2014

Comments to the Editors: My suggestion for this manuscript is acceptance after minor revisions. Comments to the Author: The manuscript might be improved in the following aspects. 1. Details need to be specified about how to mitigate non-point pollution in the case study? 2. The title of constraint 5 on page 14, i.e. Environment Constraints, should be replaced by another one that could precisely express the meanings of constraint 5. 3. Table 7 contains the information about the interaction over consecutive planning periods, including the available water resources, confidence levels, and inexact allocation schemes. These were not provided in Results Analysis. 4. What are the

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data sources in tables 1 and 2? 5. The sentence “the solutions obtained from ICCP and DIFSP will be compared to demonstrate the application of this developed method for supporting the planning of water and farmland use system” on page 5 should be polished in terms of grammar, logic, and terminology. 6. It was stated on page 10 that “the dynamics of the water resource and agricultural land use management system makes it critical to clarify the interactions between various components and those intimately involved in the planning process”. Could authors provide more details about “dynamics” and “interactions”. Corresponding examples in real cases would be much helpful for readers. 7. I am confused about the statement “Depending upon the use pattern, surface water can be sent directly to consumers or through a water treatment plant” on page 11. What is a use pattern in real-world water resources allocation systems? Why is there a difference between supply processes of surface water? What are the driving forces for such a difference? 8. What are potential limitations of the developed method? Could it be reliable for any real case of water resources and farmland systems management?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 11, 987, 2014.