Hydrol. Earth Syst. Sci. Discuss., 12, C527–C528, 2015 www.hydrol-earth-syst-sci-discuss.net/12/C527/2015/

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**HESSD** 

12, C527-C528, 2015

Interactive Comment

## Interactive comment on "Spatially-distributed influence of agro-environmental factors governing nitrate fate and transport in an irrigated stream-aquifer system" by R. T. Bailey et al.

## **Anonymous Referee #1**

Received and published: 11 March 2015

Nitrate contamination in irrigated stream-aquifer systems is a serious problem in agricultural watershed. Numerical modelling and relevant sensitivity analysis are important methods for understanding of nitrogen fate and transport, as well as making remediation strategies. This study used a nitrogen fate and transport groundwater model and the revised Morris sensitivity analysis method to identify the spatially-varying influence of system factors on nitrate fate and transport in a regional-scale irrigated hydro-agricultural system. Some results were valuable for future data collection and remediation strategies in the study area. On the whole, the paper was well written. Some minor improvements and corrections are needed. 1. According to the title, the

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Interactive Discussion

Discussion Paper



Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 1653, 2015.

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12, C527-C528, 2015

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