



Performance of a demonstration greenhouse RWHS and its potential in Beijing

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Abstract

The water shortage of Beijing has been felt by farmers for a long time. The declining of groundwater, which used to be the prime water resource for irrigation, forces all stakeholders including farmers to find out new water resources for sustainable agriculture. The performance of a demonstration greenhouse RWH in 2008 and 2009 has been analysed to identify its suitability, especially from an economy point. Some positive results come out on the basis of our research which support up-scaling of this new method. Comparison of cost between RWH and waste water reuse also has been conducted to illustrate the role of two innovation ways. Factors affecting upscaling of greenhouse RWH in rural area has been analysed to develop scenarios in the future. Which could be helpful to better understand the potential of RWH in Beijing. Greenhouse RWH should have a significant role in water supply system of Beijing due to its quantity, quality and relative low cost to apply it