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## Research of effect on water resources carrying capacity in Beijing-Tianjin-Hebei region by water transfer

**Yan Han**

Chinese Academy of Sciences, China

The water resources shortage and water environment worsen have been becoming primary restraining factor to development of economy and society in Beijing-Tianjin-Hebei region. The evaluation of water resources carrying capacity is the key to regional water reasonable utilization. In this paper, according to the view of development of economy and society need support from water resources, an evaluation approach to research the effect on water resources carrying capacity by water transfer based on water quantity, water quality, water area and water stream has been established. The results indicate the water carrying capacities are belonging serious overloaded, especially for Tianjin and Beijing. The water shortage is the major reason of water carrying capacity overloading in Beijing-Tianjin-Hebei region, and the per capita water resources is the key factor to regional water carrying capacity. The water transfer is certainly important to improve water carrying capacity in Beijing-Tianjin-Hebei region, especially for Beijing and Tianjin. The south water to north makes water carrying capacity improve 5% in Beijing and Tianjin, respectively. It supplies an evidence for water resources reasonable exploitation in Beijing-Tianjin-Hebei to research of effect on water resources carrying capacity by water transfer. It is also important to realize the harmony among water resources, economy and society.

### Biography

Yan Han is working in Chinese Academy of Sciences, China. His major research is in water resources integrated management and optimization for watershed. He has achieved some outcome of water system analysis and water optimal allocation. He has also discussed the effect on water resources capacity in region by water transfer.

[hanyan78@163.com](mailto:hanyan78@163.com)

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