

## 基于支付能力和支付意愿的农民灌溉水价承受能力研究

### Quantitative method for farmers' bearing capacity for irrigation water price

中文关键词: [灌溉水价](#) [支付能力](#) [支付意愿](#) [扩展线性支出系统](#) [条件价值评估法](#)

英文关键词: [irrigation water price](#) [ability to pay \(ATP\)](#) [willingness to pay \(WTP\)](#) [Extended Linear Expenditure System \(ELES\) model](#) [Contingent Valuation Method \(CVM\)](#)

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中文摘要:

从支付能力和支付意愿的角度,分别应用扩展线性支出系统(ELES)模型和条件价值评估法(CVM),提出了农民灌溉水价支付能力和支付意愿的定量方法,研究农民灌溉水价承受能力。以江苏省五岸灌区为例,通过问卷调查,计算分析了农民灌溉水价的支付能力、支付意愿、综合承受能力和水价调整空间等。研究表明:部分贫困农户支付能力有限,是重点考虑的对象,以人均纯收入为指标的分类定价策略值得考虑;不同支付能力农民支付意愿无显著性差异,支付意愿对水价改革具有重要意义。

英文摘要:

Farmers' bearing capacity for irrigation water use is regarded as an important factor in the water price reform of irrigation district. It can be quantitatively analyzed from two the aspects of farmers' ability to pay (ATP) and willingness to pay (WTP) for irrigation water use. The Extended Linear Expenditure System (ELES) model and the Contingent Valuation Method (CVM) are suggested to estimate them respectively. The methods are applied to analyze the statistic data through questionnaire survey on the farmers in the Wu'an Irrigation District of Jiangsu Province. It is concluded that the problem of low ability of low income farmer must be seriously considered, and the index of per capita net income can be considered to design water price strategy. There isn't significant difference as compared with the data of farmers' ATP and WTP. The current standard of water tariff can be adjusted to a certain extent. However, farmers' WTP should be paid more attention in water price reform, and irrigation water supplying service must be improved firstly.

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