

# **Trends and Patterns in Irrigation Water and Energy Demand in Arizona**

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## **ABSTRACT**

This study uses historical data from USDA's Farm and Ranch Irrigation Survey and other sources to examine changes in relationships between agricultural water use and energy demand. First, the relative importance of energy prices, depth to water of groundwater wells, water source, and cropping practices in explaining changes in energy expenses is examined. Next, the study examines how federal commodity and conservation programs affect energy and water use. Finally it examines what changes in agricultural practices and technologies may help Arizona agriculture respond to rising energy and water costs.