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Implementation of 'Phaucet' Computer Program as BMP for Improving Furrow Irrigation

Phil Tacker*
University of Arkansas
* ptacker@uaex.edu

Abstract:

A 'Phaucet' computer program for designing the layout of furrow irrigated fields will be presented. The information needed to run the program and the results that it provides will be discussed. The program is intended to help growers achieve more uniform irrigation and less runoff on furrow irrigated fields in order to conserve irrigation water and reduce irrigation cost. University of Arkansas Division of Agriculture staff have used the program extensively the last three seasons in an effort to help growers improve water management on furrow irrigated fields. Results and experiences from working with Arkansas producers will be shared. One grower who used the 'Phaucet' program on several fields during the 2008 growing season indicated that he averaged at least 25% less pumping time on his fields.

Impact Statement:

The 'Phaucet' program is a BMP that provides an output for a furrow irrigation system layout that produces outcomes of irrigation water conservation, improved uniformity, reduced runoff, labor savings and reduced irrigation cost. Through field work with growers, crop consultants and farm managers, it is felt that the 'Phaucet' program has great potential as a BMP that growers can implement to achieve improved irrigation water management on furrow irrigated fields.

Category: Agricultural BMPs

Type of Presentation: Oral Presentation