

FlowVar System

This system consists of two hardware and software sections. It is available through its graphical user interface which runs under Windows operating systems.

The present system, called FlowVar, has been firstly designed to research; hence, it is able to generate accurately any variable inflow hydrograph in different forms to furrow, border, or basin irrigated fields, depending on the pre-planned scheme. It allows the user to apply data points, math functions or a combination of both to create a hydrograph.



Also, the software has been provided with some wizards to simulate other irrigation methods such as surge flow irrigation. In other words, it is possible to conduct the water in any desired form in the field. The hardware consists of electric and hydraulic parts and has employed one of the emerging technologies in the area of Power Electronics, called VFD (Variable Frequency Drive).

Project Leader: *Yassin Osroosh*

Researchers: *Y. Osroosh, B. Mostafazadeh-Fard*

Participants: *Isfahan University of Technology*

Financier: *Anshan Abe Pars Company, Isfahan, Iran*

Duration: *2004-2005*