

DELANO-
EARLIMART
IRRIGATION
DISTRICT

**WILL YOU BENEFIT
FROM ADDING A
FLOW-REGULATING
FLOAT
SYSTEM TO YOUR
DEID
TURNOUT?**

DEID's recently completed turnout modification project originally included the installation of a flow-regulating float system at each turnout, Water users are encouraged to examine this innovative method of flow regulation for potential application to their own operation.

**If you have questions
or need more information
please call the DEID office**

Telephone: (661) 725-2526

**DEID
FLOAT SYSTEM
QUESTIONNAIRE**

Please answer the following questions and then return to our office at 14181 Avenue 24, Delano, CA 93215 or call us to see a demonstration of a float system in action.

Question #1: *Do fluctuations in delivery flows from the District's turnout cause you significant irrigation or operational problems?*
Yes__ No__

Question #2: *Does your own irrigation practices or irrigation system require or result in variable flow rates on your side of the District's turnout?* **Yes__ No__**

Question #3: *Would you be interested in attending a demonstration of how the float system works?* **Yes__ No__**

Name: _____

Phone number: _____

THE RESULT

The \$2-plus million modernization program that DEID has undertaken is a big step toward our goal of creating a delivery system that is based on our water user's irrigation schedule, not ours.

DEID has implemented many improvements that have resulted in increased water delivery flexibility without compromising reliability.

Along with turnout improvements, DEID has installed a remote telemetry system that allows central control of the District's 18 pumping stations as well as variable speed drives that are economizing operations. The District has also purchased new water ordering software and hand-held data recorders.

The benefits are many: greater opportunities for grower flexibility; delivery system improvements; reduction of operational and maintenance costs. All while saving and better using our most precious resource — **water**.

PROJECT BACKGROUND

In December of 1999, DEID began an extensive project to renovate each of its 625 farm turnouts serving District water users.

It was a big but necessary job. DEID's water distribution system and farm delivery turnouts were designed and constructed nearly a half century ago.

Aging turnouts were causing delivery reliability problems and increased maintenance costs. Even finding repair parts was sometimes a struggle.

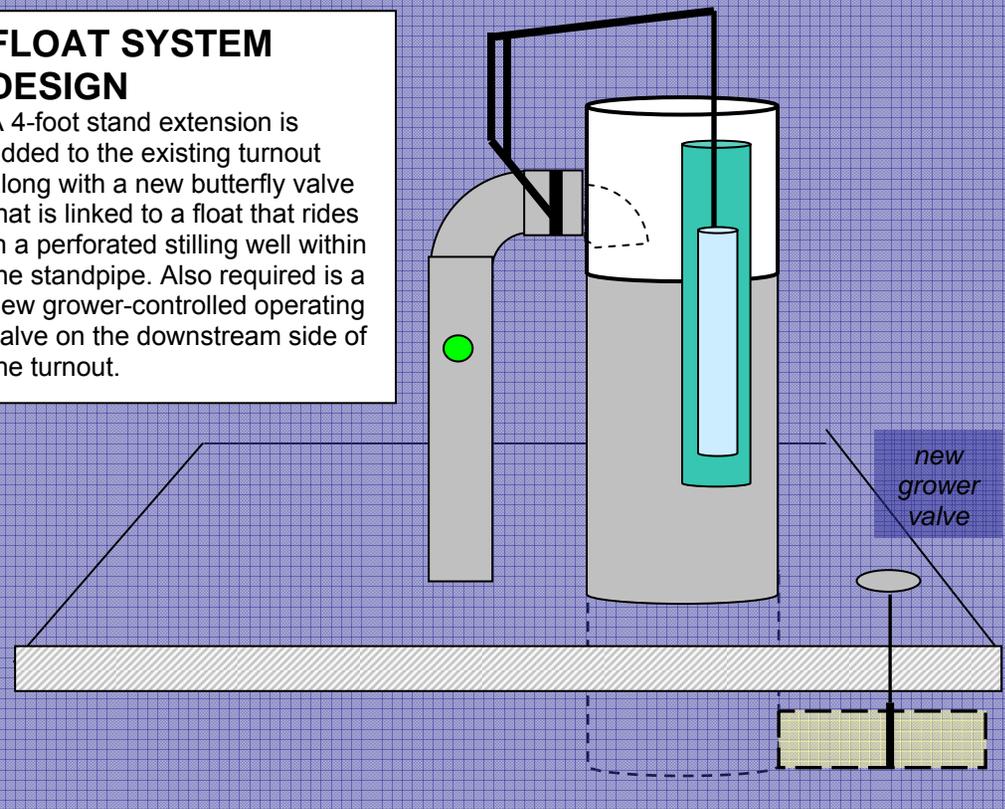
The Renovation Project resulted in installation of a new up-and-over design, with most delivery piping brought above ground. New valves and meters were installed, and all are now a standard size and design. The new turnouts are much more user friendly and accessible.

Another goal of the project was to provide for greater stability in ordered flow rates at each turnout. Installation of a flow-regulating float system can accomplish this.

But only the grower can decide whether installation of a float system is right for them. Take a look at this brief introduction and then give us a call for more information and a demonstration.

FLOAT SYSTEM DESIGN

A 4-foot stand extension is added to the existing turnout along with a new butterfly valve that is linked to a float that rides in a perforated stilling well within the standpipe. Also required is a new grower-controlled operating valve on the downstream side of the turnout.



WILL YOU BENEFIT FROM A TURNOUT FLOAT SYSTEM?

Take a look at the design for the new flow-regulating float system. It uses an additional butterfly valve that is operated by a float that follows the water level in the delivery stand. The installation of a float system also requires a new operating valve on the downstream side of the turnout that is used by the grower. This can allow the grower to make his or her own water changes (normal water ordering procedures still must be followed).

Fluctuations in flow are due to changing pressures in the District's distribution system. These pressure changes can be caused from varying water levels in the Friant-Kern Canal, District pumps turning on and off, or changes in flow rates in neighboring turnouts. This leads to either rising or falling water levels in the delivery stand. The float system is designed to react to these variations by keeping the water level in the stand at a virtually constant level.

The grower pays only for the cost and installation of the new downstream operating valve. The District funds the cost of the actual float system and its installation.