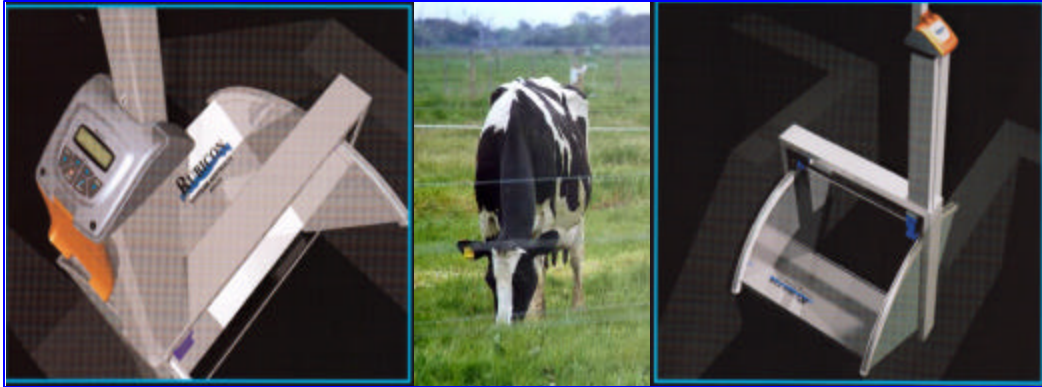


Total Channel Control System Pilot.



Project Objectives

- To understand the capability and robustness of the “Total Channel Control system” (TCCS).
- To determine the potential for TCCS technology in the future operations of Goulburn–Murray Water.
- Determine the improved customer service that can be achieved with TCCS.
- Determine the reduced Occupational Health & Safety risks associated with the TCCS as the result of automation of channel structures.

The Project

Goulburn-Murray Water (G-MW) and Rubicon Systems Australia (Rubicon) have entered into an agreement to pilot Total Channel Control System (TCCS) technologies. Rubicon have released a new suite of technologies designed to fully automate open channel delivery systems. These technologies have resulted from extensive research with Melbourne University in the application of control technologies applied in other industries.

A pilot system will be installed on the Central Goulburn No 2 channel, which delivers water to 51 customers in the Murchison – Toolamba district. The channel network is 74 kms in length, controlled by 39 regulating structures and has 158 service points.

New infrastructure

Installation of channel regulating structures, and service points onto farms is scheduled for May 2002. Dethridge meter outlets are to be converted to the FlumeGate™

regulating gates provided by Rubicon Systems. The new system will be fully functional from August 2002, before the commencement the start of the 2002/2003 irrigation season.

New Ordering Method

The computerised management system is designed to allow customers to order water using either "WaterLINE" or via the Internet "WEB order". On submitting a water order the customer will be informed if the order can be supplied and the delivery start is confirmed. If supply cannot be met, using WaterLINE the customer will be informed of next closest time the order could be supplied. If using WEB order, a graphic display of channel capacity will be displayed and the customer can select the most suitable time.

New Operation

The system will regulate the flow to the service point and open the supply on to the farm automatically. The flow rate 'as ordered' will be maintained and if it cannot be supplied for any reason, an alarm will be raised. It is anticipated the system will provide a much improved service to customers.

People Involved:

Project Manager:

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Participating Organisations:

The Government and G-MW are each contributing \$800,000 to the pilot, which Goulburn-Murray Water and Rubicon working together are expected to complete in May 2004.

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