Manage and control irrigation from your PC

The Intelligent Irrigation System is an irrigation management system. It reads data from soil moisture, weather and a variety of other sensors, determines optimum irrigation and nutrient requirements, and provides precise control of their application.

There are many benefits in controlling your irrigation system directly from a PC. Any number or combination of valves can be controlled as a group or shift. Each valve can have its own individual run time.

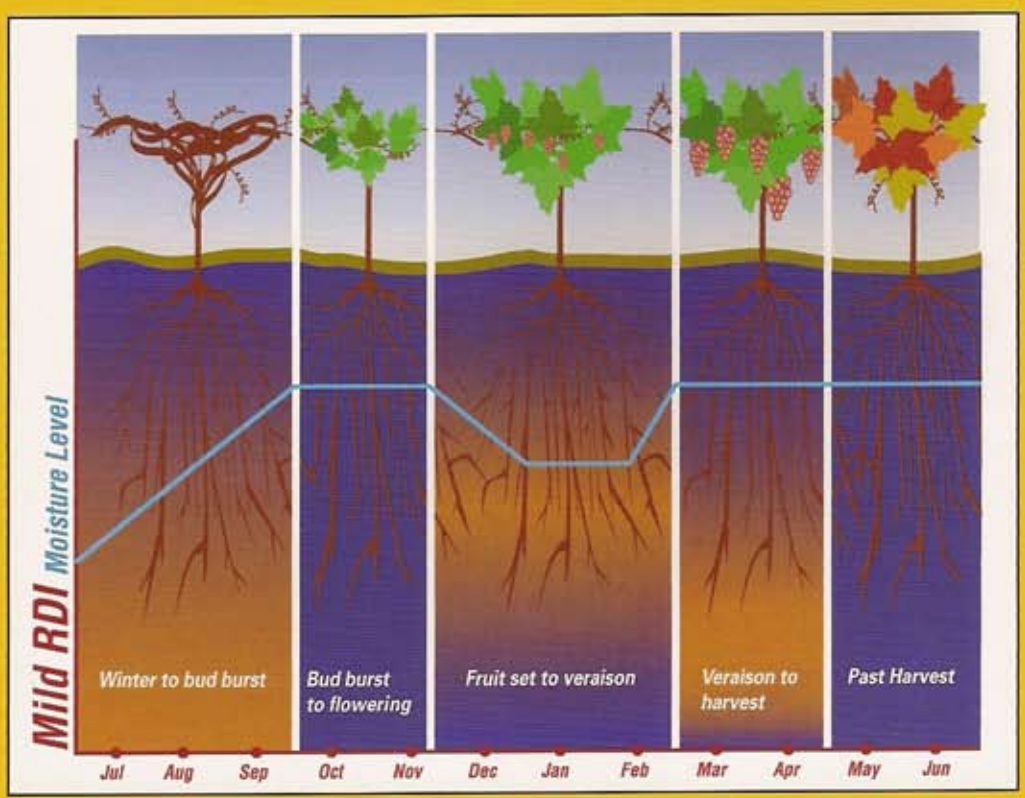
Virtually any sensor can be read, and its output used to initiate appropriate action. For example, soil moisture sensors can be used to stop or start irrigation. Weather sensors can be used to actuate frost, temperature or wind protection cycles. Every action or sensor output can be logged and analysed.

Running the software from your existing PC is very cost effective. There is no need to purchase 'stand-alone' controllers. Only simple interfaces, which link the PC to your irrigation system, are required.

Moisture control for crop quality

All plants (particularly grapes and many fruits) produce better quality if water and nutrient availability is managed to encourage root growth, or divert vegetative growth into fruiting, at key points over the entire growing period.

The Intelligent Irrigation System allows the effective application of the required horticultural growing practices by applying the right amount of water and nutrients at the right time.



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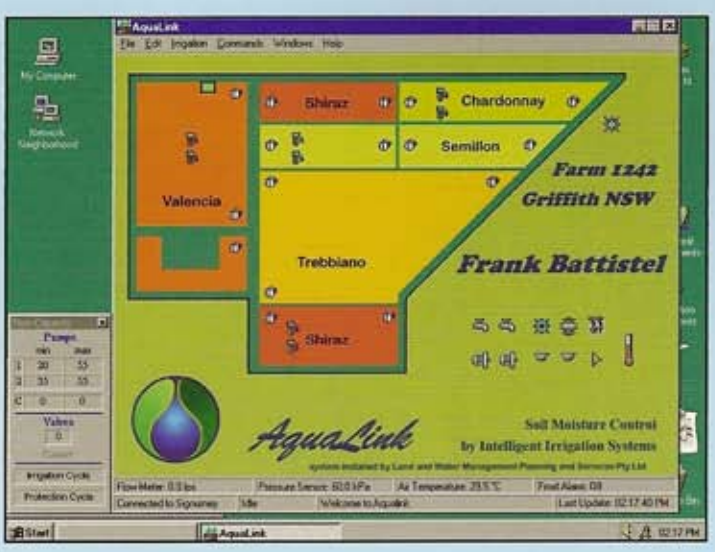


Property Overview

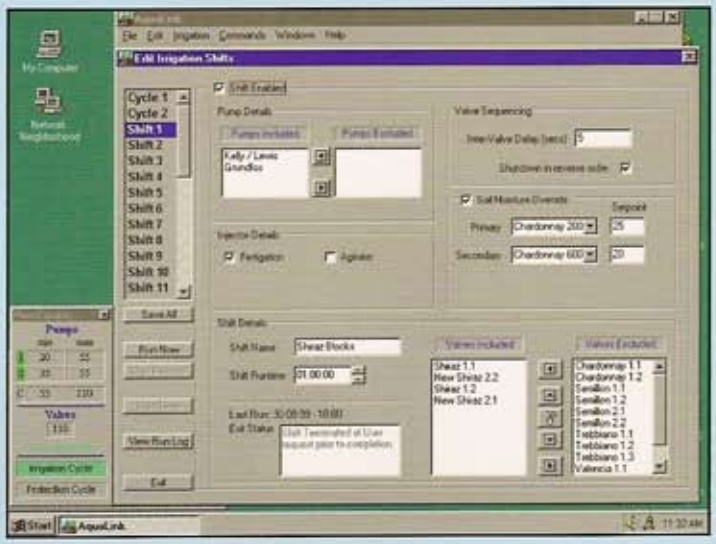
A map of the grower's property is displayed on the PC screen showing the various irrigation zones with icons representing key components such as probes, sensors, valves, pumps, etc.

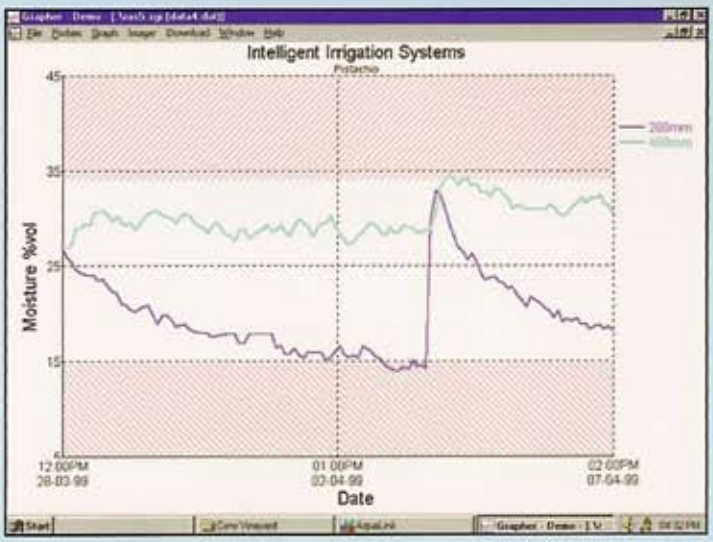
A single mouse click on the appropriate icon will instantly display data records and current status, and permits quick and easy switching or activation of that component.

Scheduling irrigation

Any combination of valves and pumps can be linked at the click of a button and calculated flow rates are checked and displayed. Shifts or sets can be run on a timer basis with very flexible stop or start times, which can be based on an analysis of soil moisture and weather predictions.

The software provides for automatic pump and valve control based on calculated flow rates and can control filters and injectors and mixing bins. Filtration can be activated on a timed basis, or via a pressure differential switch.





Irrigation analysis

The software has the capability to collect, log and analyse the information and respond immediately to adverse environmental conditions by ringing alarms or by initiating action – for example, a hot wind may initiate a rapid irrigation cycle.