

Using low-cost environmental sensors



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Environmental factors

Influence plant growth, development, disease risk

- Light (intensity and quantity)
- Temperature (air, leaf, root zone)
- Relative humidity
- Carbon dioxide
- Moisture

Low-cost sensors

- Relative terms
- Sensors are relatively low-cost, control computers are higher cost
- Focus on <\$1000 sensors, hand-held or portable, no control function
- Benefits of low \$, use in real time, placement

Outline

- Review types of sensors, cost, and use in decision making
- Sensor strategies for fine-tuning irrigation practices