

**Crop Water Stress** Index is a means of irrigation scheduling and crop water stress quantification based on canopy temperature measurements and prevailing meteorological conditions. Plant temperature is an indicator of plant water status because stomata close in response to soil water depletion causing a decrease in water uptake and an increase in leaf temperature.

Precise measurements, particularly canopy temperature, are required. Apogee Infrared Radiometers have been used by Dr. Suat Irmak, of the University of Nebraska, in his CWSI research.

#### Reference Article

Payero, J. O., S. Irmak. 2006. Variable upper and lower crop water stress index baselines for corn and soybean. Irrigation Science, 25 (1):21-32





# **Application Summary**

### **Summary**

Using infrared radiometers to determine water schedule for plants.

Apogee Sensors Used SI-111 Infrared Radiometer

# Organization

Dr. Suat Irmak of the University of Nebraska

## Location

Nebraska



