Leaf Thickness as a Predictor of Water Content of Corn, Sorghum, Soybean, and Fava Bean



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Methods

weight

Corn, Sorghum, Soybean, Fava bean

leaf thickness

Leaf sampling

- Five plants within the crops
- Two leaves cut from each leaf location
- Six leaves from each plant
- Leaves brought to full-turgor

Relative Water Content (RWC) =

Weight at full-turgor – Dry Weight

0.9

8.0 **KWC**

Measured leaf thickness **Relative Thickness (RT)** = Leaf thickness at full-turgor

Example observation vs. piecewise relationship





ר 1.0 1.0 Sorghum Corn 0.9 0.8

Observations by crop













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