Temperature Stress Indexes of Maize. (A09-todey161818-Poster)

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Abstract:

Continuing education credits taken at a distance for Certified Crop Advisers (CCAs) are becoming more common. The Crop Adviser Institute as Iowa State University (ISU) is developing CD-ROM modules for CCA credit to be taken at a distance to fill this need. One such module assesses the effects of temperature on plant development and how stress and yield reduction can be assessed using only temperature. While other factors have an effect on stress, detailed temperature measurements over time can be a good predictor of stress accumulated over a season or historically. The two indexes discussed are two common and easily calculated temperature-only indexes. Stress degree days (SDDs) accumulate stress by the difference of daily high temperature above 86 ^{o}F, which can be summed over a season. Days above 86 ^{o}F simply counts if a day is above 86 ^{o}F. These values are compared for their value in regard to yield loss.

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