Treatments

1. ABA
   1. UTC
   2. 1500ppm
2. Harvest Time
   1. Predawn
   2. 10AM
   3. 3PM

Experimental Design

1. CRBD
2. 10 blocks/replicates
3. 3 plants per pot

Fate of Material

1. Plant 1
   1. Top 4 mature leaves flash frozen at T0 postharvest for carbohydrate/MDA determination and gene expression
   2. 2 leaves from the top third internode (mature, fully expanded leaves) used to measure day0 leaf electrolyte leakage (LEL). Collected 1 leaf disc on either side of the midvein of each leaf with a #5 cork borer. For 2 leaves, 4 leaf discs total.
2. Plant 2
   1. Top 4 mature leaves placed in clamshells to measure respiration at 4C
   2. Record weights of leaves at day0, 3, 6, and 9 and measure respiration rates at day3, 6, and 9
   3. Place leaves in paper bag and dry to constant weight at 120F
   4. 2 leaves from the top third internode (mature, fully expanded leaves) placed in a clamshell used to measure LEL on day9
3. Plant 3
   1. Top 4 mature leaves packaged in clamshells and stored at 4C.
   2. Rate leaves visually for CI symptoms at day3, 6, and 9.
   3. Leaves flash frozen for day 9 MDA and carbohydrate determination.
4. Root Systems
   1. Collect fibrous root sample at T0 postharvest, wash, and flash freeze to determine carbohydrate concentrations and gene expression