

## Irrigation Scheduling Worksheet

1. For Problem 1 – the reference evapotranspiration ( $ET_o$ ) is 10.2 mm for the last 3 days.
  - a. What is the Plant Water Requirement for late season soybeans? Use a crop coefficient:  $K_c = 0.5$ ?
  - b. Effective rainfall is zero ( $Re = 0$ ). What is the irrigation water requirement?
  - c. Using the Pivot Runtime Tables, approximately how long will it take the pivot to apply the irrigation water requirement (how long to make 1 circle)?
  - d. What is the timer setting (Percent)?
  
2. For Problem 3 - the reference evapotranspiration ( $ET_o$ ) is 25.9 mm for the last 7 days.
  - a. What is the plant water requirement for maize with a mid-season crop coefficient,  $K_c = 1.2$ ?
  - b. What is the irrigation water requirement if there was 11 mm of rainfall?
  - c. Using the Pivot Runtime Tables, approximately how long will it take the pivot to apply the irrigation water requirement?

- d. What is the timer setting (Percent) on the pivot control panel?
- 
3. The reference evapotranspiration is 45 mm for the last 14 days.
    - a. What is the plant water requirement for maize with a late season crop coefficient,  $K_c = 0.35$ ?
  
    - b. What is the irrigation requirement with 3 mm of rainfall?
  
    - c. Using the Pivot Runtime Tables, approximately how long will it take the pivot to apply the irrigation water requirement?
  
    - d. What is the timer setting (Percent) on the pivot control panel?