

This sheet is to be completed by Natural Resources Conservation Service (NRCS) personnel or the Technical Service Provider (TSP) including information obtained from the landowner.

Name - Name of landowner/operator requesting design assistance

Ident. No. - Field or unit obtained from NRCS field office staff

Legal Desc. - Legal description of location where irrigation water management (IWM) is being applied

County - County name

Designed by - Designer

Checked by - Person who checks this data sheet

Approved by - NRCS employee with proper engineering job approval authority as delegated in Form KS-CPA-1, Kansas Practice Approval Certification, or private professional engineer (PE) in accordance with Conservation Practice Standard 449, Irrigation Water Management (in electronic Field Office Technical Guide [eFOTG] Section IV)

Date - Enter date when each item is signed--Designed by, Checked by, and Approved by

**Attached Items**

Place a checkmark by each of the following items that you are attaching to this form:

Form KS-ENG-394 - This is used to check if there is sufficient water to meet average water management requirements each month of the growing season for the crops receiving water from the water source. This form will be completed by a person from the NRCS field office or the TSP. Check the box for the appropriate chance rainfall used to determine water requirements.

Conservation Plan Map - Used to show location of ground receiving IWM

Approved Evapotranspiration (ET)-Based Water Scheduling Program Used - Click the button next to the ET-based scheduling program used to track crop water demand and the application of water.

**Irrigation Data**

Acres Irrigated - Enter the number of acres irrigated for each crop in each field by the water source for the calendar year.

System Efficiency Alternative - Select the system from the drop-down list.

System Efficiency - This will be entered automatically based on the System Efficiency Alternative that is selected.

Crop ET - Obtain from the KanSched2 Season Summary sheet (see Figure 1 below) or other scheduling program.

Effective Rain - Obtain from the KanSched2 Season Summary sheet (see Figure 1 below) or other scheduling program. (Make sure that the first 0.2 inch of each rain has been excluded from the value that was entered into the "Rainfall" column of the "Budget" sheet for each entry during the season.)

### Pre-Season Irrigation

Gross - Obtain from difference in meter readings at beginning of calendar year and beginning of growing season when daily ET is being tracked.

Net - Automatically calculated

### Irrigation

Gross - Obtain "gross irrigation" from the KanSched2 Season Summary sheet (see Figure 1 below) or other scheduling program. If it is not in the scheduling program being used, it can be obtained by dividing the Net Irrigation value by the System Efficiency value on Form KS-ENG-390.

Net - Automatically calculated (The Net Irrigation value should be checked with the Net Irrigation value from the Season Summary sheet. If the Net Irrigation values are different, then the System Efficiency value should be changed in the scheduling program that is being used.)

### Post-Season Irrigation

Gross - Obtain from difference in meter readings at end of the growing season and either (1) the beginning of the growing season for the next crop when daily ET is being tracked or (2) the end of the calendar year.

Net - Automatically calculated

Total Irrigation (Gross and Net) - Automatically calculated

## **Verification That Water Meter and ET-Based Water Scheduling Program Are Within Tolerance**

### Water Meter Calculations:

Ending Water Meter Reading for Year - Obtained from water meter reading at end of calendar year or after last irrigation (recorded first as the larger reading in the calculation). Select the appropriate units from the drop-down box.

Beginning Water Meter Reading for Year - Obtained from water meter reading at beginning of calendar year or before first irrigation.

Total Water Used (Meter Total) - Automatically calculated

Meter Total - Automatically calculated

Percent Difference Between Meter and ET-Based Water Scheduling Program - Automatically calculated

Is the difference between the water meter and ET-Based Water Scheduling Program within 10% for the first year and 5% for subsequent years (Environmental Quality Incentives Program [EQIP] and Ground and Surface Water Conservation [GSWC] requirement)?

Click the button for "Yes" or "No"

If the answer is "No", explain why and how it can be resolved.

## Verification That Total Irrigation and Effective Rain Did Not Exceed Adjusted Crop ET

Crop ET - Automatically inserted from page 1

Mark if it is the “first year” or “other year” of the contract

Total Irrigation (Net) plus Effective Rain - Automatically calculated (This is the total water applied to the crop.)

Is the Total Irrigation (Net) plus Effective Rain equal to or less than the Crop ET + 10% or 5%?

The Yes or No box is automatically checked by comparing values

If the answer is “No,” explain why.

Checkout:

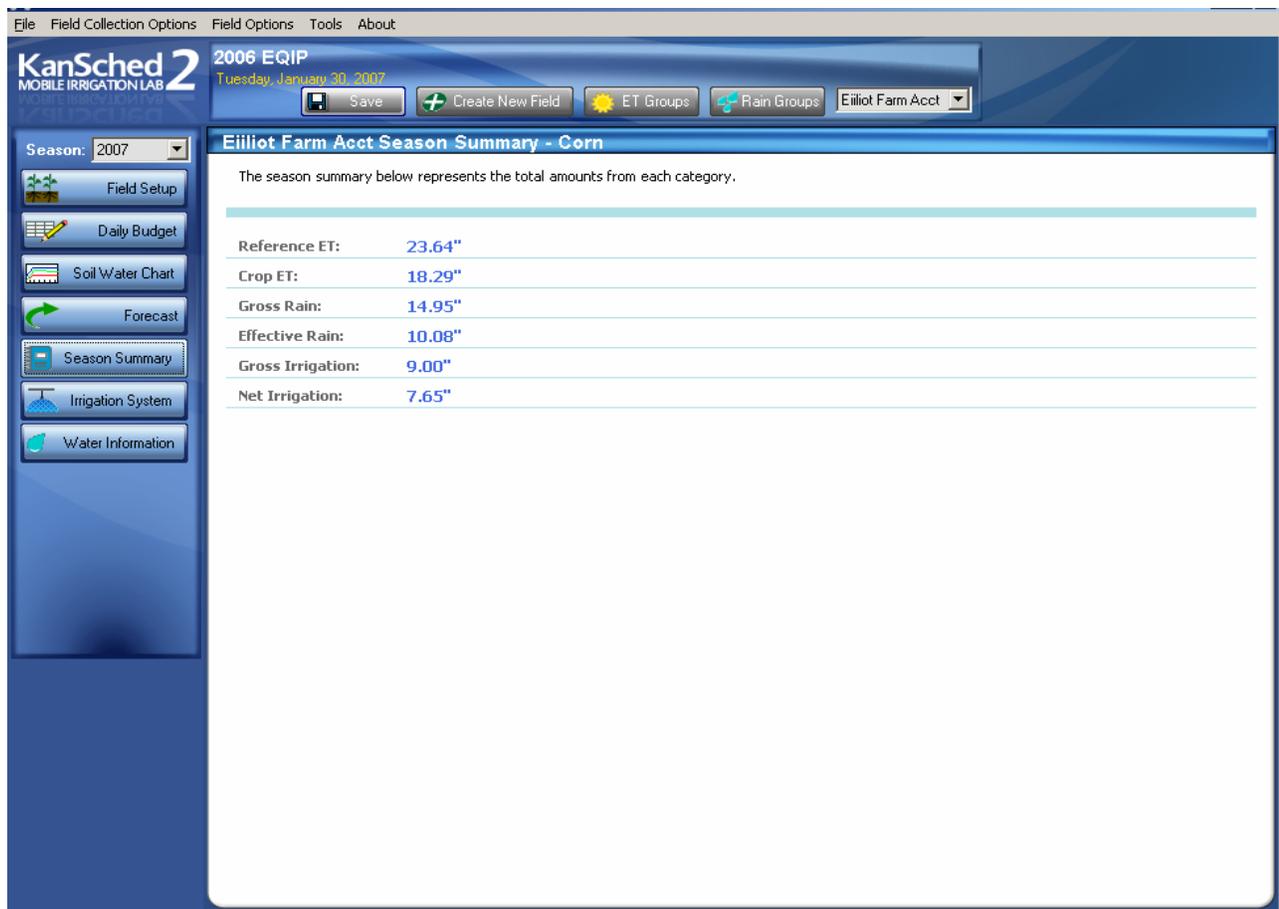
IWM - Enter acres documented for irrigation water management.

Irrigation system - Select from the drop-down list.

Checkout by - The person responsible for checkout of the IWM practice should sign and date.

Audited by - The person reviewing the checkout for certification is to sign and date.

**Figure 1 - Sample of KanSched2 Season Summary Sheet**



**Example Values** (Numbers in bold are from KanSched2 [Figure 1])

Second Year of Contract:

Crop ET = **18.29** inches

Effective Rain = **10.08** inches

Pre-Season Irrigation (Net) = 0.00 inches

Irrigation (Net) = **7.65** inches

Post-Season Irrigation (Net) = 0.00 inches

Total Irrigation (Net) = 7.65 inches

Crop ET + 5% = 19.2 Inches

Total Irrigation (Net) + Effective Rain (7.65 + 10.08) = 17.73 inches