

Instructions for Completing Form KS-ENG-390

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

Page 1:

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

Designed by - Designer

Checked by - Person who checks this data sheet

Approved by - NRCS employee with proper engineering job approval authority or private Professional Engineer 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")

Form KS-ENG-394 - Irrigation Water Management Crop and Water Requirement spreadsheet 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 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 - Check the ET-based scheduling program used to track crop water demand application of water.

Irrigation Data

Acres irrigated - Acres irrigated for each crop in each field by the water source for the calendar year

System efficiency - Efficiency used for program application

From KanSched program or other program used, obtain the following (refer to Figure 1 - KanSched Demo Field Summary Sheet below for location of required information):

Crop ET - Obtained from "Field Summary Sheet" top row center block

Effective rain - Obtained from "Field Summary Sheet" bottom row left block (the first 0.2 inch of each rain should have been excluded from the value entered into the "Rainfall" column of the "Budget" sheet for each entry during the season)

Irrigation-Gross and Net - Obtained from "Field Summary Sheet" bottom row

Pre-season irrigation and post-season irrigation - Not reported on the KanSched program

Pre-season irrigation - Obtained from difference in meter readings at beginning of calendar year and beginning of growing season when daily ET is being tracked

Post-season irrigation - Obtained from difference in meter readings at end of the growing season and either (a) beginning of growing season for the next crop when daily ET is being tracked or (b) end of calendar year

Total irrigation-Gross and Net - Irrigation, pre-irrigation and post-irrigation - Sum values reported above - Convert the Total irrigation (Gross) to acre-feet

Page 2:

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

Water meter calculations:

Ending water meter reading for year - Obtained from water meter reading at ending of calendar year or after last irrigation (recorded first as the larger reading in the calculation)

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) - Obtained from difference between "Ending water meter reading for year" and "Beginning water meter reading for year"

Meter total - If the water meter readings are not recorded in acre-feet, need to make necessary conversion to this unit.

Percent difference between meter and ET-based scheduling program - Obtained by subtracting the "total gross irrigation" from the "meter total" in acre-feet and dividing the difference by "meter total" in acre-feet and then multiplying this value by 100 to get a percent

Verification That Total Irrigation Did Not Exceed Adjusted Crop ET

Crop ET (obtained from page 1) - Mark if it is the "first year" or "other year" of contract and compute the adjusted Crop ET value as follows:

Crop ET + 10% - Obtained by multiplying Crop ET Value by 1.10

Crop ET + 5% - Obtained by multiplying Crop ET Value by 1.05

Total irrigation (Net) + Effective rain - Obtained by adding these two values found on page 1 (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%?
Mark appropriate block

If the answer is "No", explain why.

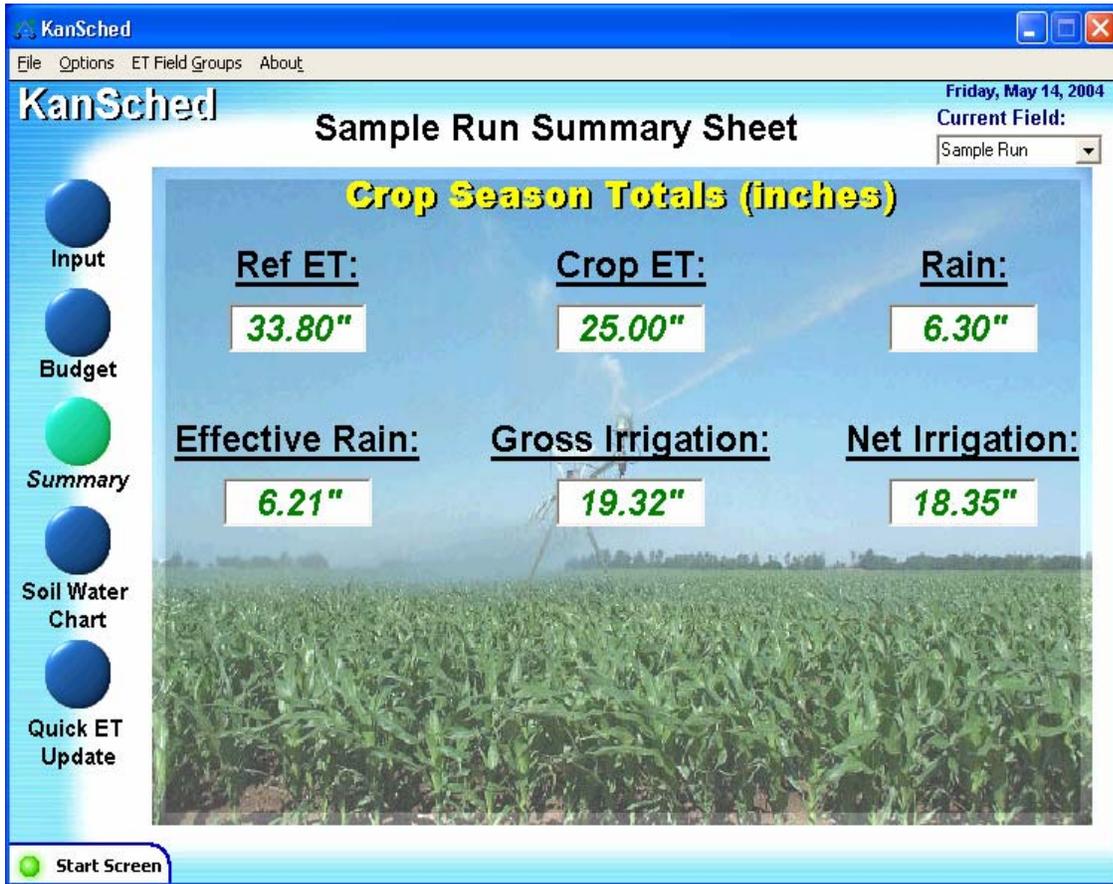
Checkout: IWM - Enter acres documented for irrigation water management.

Irrigation system - List sprinkler irrigation, microirrigation, or surface

Checkout by - The person responsible for checkout of the irrigation water management practice should sign and date

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

Figure 1 - Demo of KanSched Field Summary Sheet



Second year of contract:

Crop ET	=	<u>25.00</u> inches
Crop ET + 5%	=	<u>26.25</u> Inches
Pre-season irrigation	=	<u>1.00</u> inches
Irrigation (Net)	=	<u>18.35</u> inches
Post-season irrigation	=	<u>0.00</u> inches
Total irrigation (Net)	=	<u>19.35</u> inches
Effective rain	=	<u>6.21</u> inches
Total water applied	=	<u>25.56</u> inches