

# PROFILE

## Kansas Revised Universal Soil Loss Equation 2 (RUSLE2) Training Exercise 2

**Task:** In this exercise, you will calculate soil loss for a single hill slope Profile. Use the Natural Resources Conservation Service (NRCS) simple Soil Conditioning Index (SCI) User's Template. Use inputs and report output as specified below.

### Step-By-Step Procedure:

1. Locate and click on the icon for **Profile** on the icon bar near top of RUSLE2 screen.
2. Double click on the **Default** record. You are now in the profile screen.
3. **Location:** Left click the drop-down arrow. Double click on the **KSAREA5** folder. Move through the menus and select **Allen**, or your county.
4. **Soil:** Left click the drop-down arrow and select **KSAREA5**, then **Allen**, or your county, **KS**. Select a mapunit component within a mapunit.
5. Topography: Set the slope length at 200 feet. Set the average slope steepness at 6%.
6. Base Management: Select a management record from CMZ 24, Single Year/ Single Crop Templates, Corn grain, 30 in. Select "**Corn grain: FM, chisel\_st pnt, fcult, z24.**"
7. **Save:** Save this Profile. Click the **Save As** icon in upper left of the RUSLE2 screen. Name it **FT cont corn.**

### Check Output for this Profile:

1. Soil loss for conservation planning: \_\_\_\_\_ t/a/y
2. T value for soil map unit: \_\_\_\_\_
3. Surface residue cover after planting: \_\_\_\_\_ %
4. Soil Conditioning Index: \_\_\_\_\_
5. Corn yield: \_\_\_\_\_ bu/ac  
Change the yield to **90 bu/acre**, then exit from the yield window by selecting the **x** in the top right corner of the screen.
6. New soil loss for conservation planning: \_\_\_\_\_ t/a/y