

WORKSHEET

Kansas Revised Universal Soil Loss Equation 2 (RUSLE2) Training Exercise 5

Task: In this exercise you will use the worksheet which allows you to compare soil loss for several alternative management systems on the same hill slope (or same field). Follow the steps below to calculate erosion for three alternative management systems on one hill slope.

Step-By-Step Procedure:

1. Locate and click on the icon for **Worksheet** on the icon bar near top of RUSLE2 screen.
2. Double click on the **Default** record. You are now in the worksheet screen.
3. Make the following inputs at the top of the screen: Tract: **1**; Owner Name: **Joe Schmoie**; Field: **1**.
4. Click the drop-down arrow in the box for **Location**. Navigate to the **KSAREA5/Allen County** folder.
5. Click the drop-down arrow in the box for **Soil**. Navigate to **KsArea 5\Allen\001EC ERAM SILTY CLAY LOAM, 2 TO 7 PERCENT SLOPES, ERODED**. Select and double click **ERAM silty clay loam 90%**.
6. Enter slope length: **200**; slope steepness: **6%**
7. We are going to use the profiles created from Exercises 2, 3, and 4 to provide the producer with three management options for field 1. Single left click the **+** twice under **Temp Scenario** to create two profile lines, for a total of three profiles.
8. Right click on the yellow folder under **Temp Scenario** and single left click **Load from file**.
9. Select **Cont Corn FT Finney**.
10. Repeat steps 8 and 9 bringing in the profile **NT Corn ST Soybean Finney** into line 2, and **NT Corn ST Soybean Terracing and Contouring Finney** into line 3.
11. **Save** your worksheet as **joe**.

Results:

Soil loss; line 1 (continuous corn mulch-till): _____ t/a/y

Soil loss; line 2 (corn soybean mulch-till): _____ t/a/y

Soil loss; line 3 (corn soybean mulch-till w/terraces): _____ t/a/y