Kansas RUSLE2 Training Exercise 4

contouring and terracing

RUSLE2 Version 1.15.4.0 (Feb 11 2004)

File Database Edit View Options Window Help

Auto update

Profile: Corn NT Soybean ST Gove

STEP 1: Choose location to set climate: Location KSAREA1\Gove County

STEP 2: Choose soil type: Soil KSAREA1Soils\Gove\065UC ULY SILT LOAM, 2 TO 6 PERCENT SLOPES\ULY silt loam 100%

STEP 3: Set slope topography: Slope length (along slop 200 Avg. slope steepness, % 6.0

STEP 4a: Select base management Base management CMZ 24\c.Other Local Mgt Records\Corn NT Soybean ST Gove

STEP 4b: Modify/build man. sequence if desired:

Management sequence

Man.	Management	Starting date, m/d/y	Ending date, m/d/y	Correct dates by:
1	...ingle Year/Single Crop Templates\Corn; grain\30 in\corn grain;NT z24	4/1/2	10/20/2	===>
2	...ngle Crop Templates\Soybeans\30 in\soybeans; Sconv,disk, fcult, z24	4/20/3	10/10/3	===>

STEP 4c: adjust management inputs if desired:

Adjust yields open

General yield level Set by user

Adjust res. burial level bury 30% less than normal

Adjust ext. res. additions Residue inputs

Rock cover, % 0

Examine irrigation open

Apply rot. builder manag Apply

Save temp. management as perman Save

STEP 5: Set supporting practices:

Contouring a. rows up-and-down hill Actual row grade, % 6.0 Crit. slope length, ft

Strips/barriers (none)

Diversion/terrace, sediment basin (none)

Subsurface drainage (none)

Results | Additional Results

Soil loss for cons. plan, t/ac/yr 5.1

T value, t/ac/yr 5.0

Surf. res. cov. values open

Soil conditioning index Soil conditioning index

Info

Finished calculating

R2_NRCS_Fld_Office NRCS simple SCI 122003 Area1mosesmaster

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RUSLE2 Version 1.15.4.0 (Feb 11 2004)

File Database Edit View Options Window Help

Auto update

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STEP 1: Choose location to set climate: Location KSAREA1\Gove County

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Adjust res. burial level bury 30% less than normal

Adjust ext. res. additions Residue inputs

Rock cover, % 0

Examine irrigation open

Apply rot. builder manag Apply

Save temp. management as perman Save

STEP 5: Set supporting practices:

Contouring a. rows up-and-down hill

Actual row grade, % 6.0 Crit. slope length, ft

Strips/barriers

Diversion/terrace, sediment basin

Subsurface drainage

- l. relative row grade 20 percent of slope grade
- m. relative row grade 25 percent of slope grade
- m. relative row grade 30 percent of slope grade
- m. relative row grade 35 percent of slope grade
- m. relative row grade 40 percent of slope grade
- m. relative row grade 45 percent of slope grade
- n. relative row grade 50 percent of slope grade
- o. absolute row grade 0.5 percent
- p. absolute row grade 1 percent
- q. absolute row grade 2 percent
- r. absolute row grade 3 percent

Results | Additional Results

Soil loss for cons. plan, t/ac/yr

T value, t/ac/yr

Surf. res. cov. values

Soil conditioning index

Finished calculating

R2_NRCS_Fld_Office | NRCS simple SCI 122003 | Area1mosesmaster

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RUSLE2 Version 1.15.4.0 (Feb 11 2004)

File Database Edit View Options Window Help

Auto update

Profile: Corn NT Soybean ST Gove*

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STEP 3: Set slope topography: Slope length (along slop 200 Avg. slope steepness, % 6.0

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Adjust res. burial level bury 30% less than normal

Adjust ext. res. additions Residue inputs

Rock cover, % 0

Examine irrigation open

Apply rot. builder manag Apply

Save temp. management as perman Save

STEP 5: Set supporting practices:

Contouring o. absolute row grade 0.5 percent Actual row grade, % 0.50 Crit. slope length, ft 200

Strips/barriers (none)

Diversion/terrace, sediment basin (none)

Subsurface drainage

1 gradient terrace 0.05% grade at bottom of RUSLE slope
1 gradient terrace 0.05% grade in middle of RUSLE slope
1 gradient terrace 0.1% grade at bottom of RUSLE slope
1 gradient terrace 0.1% grade in middle of RUSLE slope
1 gradient terrace 0.5% grade at bottom of RUSLE slope
1 gradient terrace 0.5% grade in middle of RUSLE slope
1 level terrace at bottom of RUSLE slope
1 level terrace in middle of RUSLE slope
2 Parallel Tile Outlet terraces 0.05% grade 1in middle 1 at bottom of RUSLE slope
2 Parallel Tile Outlet terraces 0.05% grade in middle of RUSLE slope
2 Parallel Tile Outlet terraces 0.1% grade 1in middle 1 at bottom of RUSLE slope

Results Additional Results

Soil loss for cons. plan, t/ac/yr

T value, t/ac/yr

Surf. res. cov. values

Soil conditioning index

Finished calculating R2_NRCS_Fld_Office NRCS simple SCI 122003 Area1mosesmaster

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RUSLE2 Version 1.15.4.0 (Feb 11 2004)

File Database Edit View Options Window Help

Auto update

Profile: Corn NT Soybean ST Gove*

STEP 1: Choose location to set climate: Location KSAREA1\Gove County

STEP 2: Choose soil type:

STEP 3: Set slope topograph

STEP 4a: Select base manag

STEP 4b: Modify/build man. s

Man.

1 ...ingle Year/S

2 ...ngle Crop T

s if desired:

Set by user

0% less than normal

due inputs

0

open

Apply

Save

STEP 5: Set supporting pract

Cor

Strips/

Diversion/terrace, sedimer

Subsurface d

Save object into profiles

Corn NT Soybean ST Gove

default

profiles

Save

Name: Corn NT Soybean ST Gove Level Terrace and Contouring

Cancel

Results Additional Results

Soil loss for cons. plan, t/ac/yr 1.7

T value, t/ac/yr 5.0

Surf. res. cov. values open

Soil conditioning index Soil conditioning index

Info

For Help, press F1

R2_NRCS_Fld_Office NRCS simple SCI 122003 Area1mosesmaster

start D:\RUSLE2\RUSLE2 ... RUSLE2 Version 1.15... Exercise 4(contourin... Microsoft PowerPoint... 11:26 AM

RUSLE2 Version 1.15.4.0 (Feb 11 2004)

File Database Edit View Options Window Help

Auto update

Profile: Corn NT Soybean ST Gove Level Terrace and Contouring

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Adjust res. burial level bury 30% less than normal

Adjust ext. res. additions Residue inputs

Rock cover, % 0

Examine irrigation open

Apply rot. builder manag Apply

Save temp. management as perman Save

STEP 5: Set supporting practices:

Contouring o. absolute row grade 0.5 percent Actual row grade, % 0.50 Crit. slope length, ft 100

Strips/barriers (none)

Diversion/terrace, sediment basin 1 level terrace in middle of RUSLE slope

Subsurface drainage (none)

Results | Additional Results

Soil loss for cons. plan, t/ac/yr 1.7

T value, t/ac/yr 5.0

Surf. res. cov. values open

Soil conditioning index Soil conditioning index

Info

Finished calculating

R2_NRCS_Fld_Office NRCS simple SCI 122003 Area1mosesmaster

start D:\RUSLE2\RUSLE2 ... RUSLE2 Version 1.15... Exercise 4(contourin... Microsoft PowerPoint... 11:26 AM