RUSLE2 Profile Erosion Calculation Record

Info: Keene conventional

File: profiles\Waldo
Access Group: R2_NRCS_Fld_Office

Inputs:

Location	*Soil*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Maine\Waldo County	SSURGO\Waldo County, Maine\BoB Boothbay silt loam, 3 to 8 percent slopes\Boothbay Silt loam 86	120	3.0

Management	*Vegetation*	*Yield units*	*# yield units, #/ac*
managements\CMZ 60\a.Single Year/ Single Crop Templates\Corn Silage\Corn,silage; SC, manure, Z60	vegetations\Corn, silage	tons	20.000

Contouring	*Strips/barriers*	*Diversion/terrace, sediment basin*	*Subsurface drainage*	*Adjust res. burial level*	*General yield level*	*Rock cover, %*
b. absolute row grade 1 percent	(none)	(none)	(none)	Normal res. burial	Base yield	0

Outputs:

T value	*Soil loss erod. portion*	*Detachment on slope*	*Soil loss for cons. plan*	*Sediment delivery*	*Net C factor*	*Net K factor*	*Crit. slope length*	*Surf. cover after planting, %*
5.0	3.4	3.4	3.4	3.4	0.26	0.35	120	11

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
5/8/0	Manure spreader, solid and semi-solid		38
5/11/0	Chisel, st. pt.		16
5/16/0	Disk, tandem light finishing		11
5/16/0	Fert applic. shank low disturbance, 12 in		11
5/16/0	Planter, double disk opnr	Corn, silage	11
6/16/0	Sprayer, post emergence		14
9/22/0	Harvest, silage		26

FUEL USE EVALUATION:

Fuel type for entire run	*Equiv. diesel use for entire simulation*	*Energy use for entire simulation*	*Fuel cost for entire simulation, US$/ac*
(none)	5.1	700000	0

SCI and STIR Output

Soil conditioning index (SCI)	*SCI OM subfactor*	*SCI FO subfactor*	*SCI ER subfactor*	*Avg. annual slope STIR*	*Wind & irrigation-induced erosion for SCI, t/ac/yr*
-0.123	-0.43	0.30	-0.35	71.2	0

The **SCI** is the **Soil Conditioning Index** rating. If the calculated index is a negative value, soil organic matter levels are predicted to decline under that production system. If the index is a positive value, soil organic matter levels are predicted to increase under that system.

The **STIR** value is the **Soil Tillage Intensity Rating**. It utilizes the speed, depth, surface disturbance percent and tillage type parameters to calculate a tillage intensity rating for the system used in growing a crop or a rotation. STIR ratings tend to show the differences in the degree of soil disturbance between systems. The kind, severity and number of ground disturbing passes are evaluated for the entire cropping rotation as shown in the management description.