RUSLE2 Profile Erosion Calculation Record

Info: Tim Hewett A conventional

File: profiles\Somerset
Access Group: R2_NRCS_Fld_Office

Inputs:

Location	*Soil*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Maine\Somerset County	SSURGO\Somerset County, Maine, Southern Part\BaC2 Bangor silt loam, 8 to 15 percent slopes, eroded\Bangor Silt loam 87%	150	4.0

Management	*Vegetation*	*Yield units*	*# yield units, #/ac*
managements\CMZ 60\a.Single Year/ Single Crop Templates\Corn Silage\Corn,silage; SP, 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, %*
a. rows up-and-down hill	(none)	(none)	(none)	Normal res. burial	Base yield	7.0

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	3.3	3.3	3.3	3.3	0.24	0.30	150	2.1

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
5/8/0	Manure spreader, solid and semi-solid		38
5/11/0	Plow, moldboard		1.1
5/16/0	Disk, tandem light finishing		2.1
5/16/0	Fert applic. shank low disturbance, 12 in		2.1
5/16/0			

##SubobjectEnd##

FUEL USE EVALUATION:

##Table: SLOPE_FUEL_PTR, SLOPE_EQUIV_DIESEL_USE_PER_AREA, SLOPE_ENERGY_USE_PER_AREA, SLOPE_FUEL_COST_PER_AREA:ALL ##

SCI and STIR Output
##SubobjectStart: SOIL_COND_INDEX_PTR##

##Table: SOIL_COND_INDEX_RESULT, SOIL_COND_INDEX_OM_SUBFACTOR, SOIL_COND_INDEX_FO_SUBFACTOR, SOIL_COND_INDEX_ER_SUBFACTOR, SOIL_COND_INDEX_STIR_VAL, SOIL_COND_INDEX_WIND_EROSION:ALL##

##SubobjectEnd##

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.