RUSLE2 Profile Erosion Calculation Record

Info: Wright Conventional
File: profiles\default Kennebec
Access Group: R2_NRCS_Fld_Office

Inputs:

Location	*Soil*	*Slope length (horiz)*	*Avg. slope steepness, %*
USA\Maine\Kennebec County	SSURGO\Kennebec County, Maine\WrB Woodbridge fine sandy loam, 3 to 8 percent slopes\Woodbridge Fine sandy loam 85	120	2.0

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, %*
b. absolute row grade 1 percent	(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, %*
3.0	1.8	1.8	1.8	1.8	0.27	0.26	120	1.7

Date	*Operation*	*Vegetation*	*Surf. res. cov. after op, %*
5/8/0	Manure spreader, solid and semi-solid		37
5/11/0	Plow, moldboard		0.87
5/16/0	Disk, tandem light finishing		1.7
5/16/0	Fert applic. shank low disturbance, 12 in		1.7
5/16/0	Planter, double disk opnr	Corn, silage	1.7
6/16/0	Sprayer, post emergence		6.7
9/22/0	Harvest, silage		24

##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.