RHEM Input File Parameter Descriptions

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! Uniform Hillslope
BEGIN GLOBAL
       CLEN      ! The characteristic length of the hillslope in meters or feet
       UNITS     ! Metric or English units
       DIAMS     ! List of representative soil particle diameters (mm or in) for up to 5
       particle classes
       DENSITY   ! List of densities (g/cc) corresponding to the above particle classes
       TEMP      ! Temperature in degrees C. Not used by RHEM
       NELE      ! Number of hillslope elements (planes)
END GLOBAL
BEGIN PLANE
       ID        ! Identifier for the current plane
       LEN       ! The plane slope length in meters or feet
       WIDTH     ! The plane bottom width in meters or feet
       CHEZY     ! Overland flow Chezy Coeff. (m^(1/2)/s) (square root meter per second)
       RCHEZY    ! Concentrated flow Chezy Coeff. (m^(1/2)/s) (square root meter per
       second)
       SL        ! Slope expressed as fractional rise/run
       SX        ! Normalized distance
       CV        ! Coefficient of variation for Ke
       SAT       ! Initial degree of soil saturation, expressed as a fraction of the pore
       space filled
       PR        ! Print flag
       KSS       ! Splash and sheet erodibility coefficient
       KOMEGA    ! Undisturbed concentrated erodibility coeff. (s2/m2) value suggested by
       Nearing 02Jul2014
       KCM       ! Maximum concentrated erodibility coeff. (s2/m2)
       CA        ! Cover fraction of surface covered by intercepting cover - rainfall
       intensity is reduced by this fraction until the specified interception depth has
       accumulated
       IN        ! Interception depth in mm or inches
       KE        ! Effective hydraulic conductivity (mm/h)
       G         ! Mean capillary drive, mm or inches — a zero value sets the infiltration
       at a constant value of KE
       DIST      ! Pore size distribution index. This parameter is used for redistribution
       of soil moisture during unponded intervals
       POR       ! Porosity
       ROCK      ! Volumetric rock fraction, if any. If KE is estimated based on textural
       class it should be multiplied by (1 - Rock) to reflect this rock volume
       SMAX      ! Upper limit to SAT
       ADF       ! Beta decay factor in the detachment equation in Al-Hamdan et al 2012
       (Non-FIRE)
       ALF       ! Allow variable alfa in the infiltration Smith-Parlange Equation, alf <=
       0.05, Green and Ampt
       BARE      ! Fraction of bare soil to total area
       RSP       ! Rill spacing in meters or feet
       SPACING   ! Average micro topographic spacing in meters or feet
       FRACT     ! List of particle class fractions — must sum to one
END PLANE
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