

ArcSWAT 2.0.0 Release Notes

02/08/08

Updates\Bug Fixes from Version 1.0.6

General:

1. This version of ArcSWAT is now compatible with ArcGIS 9.2, SP 4 (build 1420).
2. Updated the US STATSGO soils dataset as part of the install package. The new attribute tables are more complete, and the raster dataset format has been modified to allow better performance when used in conjunction with coarser resolution DEMs.
3. Updated the ArcSWAT documentation to reflect interface changes and functionality additions, as well as to address known errata.

SWAT Project Setup:

1. Made small editorial updates to forms

Watershed Delineation:

1. Modified the raster data management and storage of rasters during the watershed delineation process to provide greater stability in the ArcGIS 9.2 environment
2. Modified the watershed delineation process to bypass DEM grid processing when using the pre-defined streams and watersheds option
3. Added an option to allow users to skip the detailed subbasin topographic report. This is a computationally-intensive process that can take a very long time with large numbers of subbasins.
4. Made some improvements to importing and subbasin parameter calculation for user-defined watersheds
5. Improved efficiency in the calculation of reach parameters
6. Made correction to inlet subbasin IDs for cases where inlets are loaded from a table
7. Added check for multiple point sources in a single subbasin. If there are multiple ones in the same subbasin, they will be combined to a single source when watersheds are delineated.

HRU Analysis:

1. Added option to not create PolyHRU feature class
2. Improved efficiency of the overlay algorithm
3. Fixed bug in HRU slope calculation when using the dominant HRU option
4. Made some bug fixes to improve stability
5. Made updates to loading of soils lookup tables to allow multiple soil grid codes mapping to the same soils name. A grid reclassify will be automatically performed to reduce duplicate lookup codes.

Write Input Files:

1. Made editorial changes to forms

2. Made a change to writing of fig.fig to not skip a hydro storage number after the subbasin definitions.
This will not affect model output.

Edit SWAT Input

1. Made some editorial changes to forms
2. Fixed a bug with editing subbasin elevation band parameters
3. Made change to management file editing to allow heat units to reach maturity parameter to be extended to other HRUs. Also, changed how the default heat units to maturity is set when new years are added to a rotation.

SWAT Simulation

1. Made editorial updates to forms.
2. Made enhancements to the manual calibration helper tool.