

ArcSWAT 2009.93.7 Release Notes

Updated 6/6/11

SWAT2009.exe Version:

The SWAT2009.exe Revision 481 is packaged with ArcSWAT 2009.93.7.

Note: The septic modeling routines and associated inputs have changed significantly from swat2009.exe rev 445 and ArcSWAT 2009.93.5. The new ArcSWAT interface and swat2009.exe will not work with the previous “SEP” table structure and inputs. These tables and inputs will need to be recreated with ArcSWAT 2009.93.6 in order to run with the current version of SWAT.

This version can automatically upgrade projects created with previous versions of ArcSWAT, however it is always advised to back up the project and corresponding swat2009.mdb before upgrading. Only projects created with ArcSWAT 2.3.4 or later versions can be upgraded.

Updates and Bug Fixes from Version 2009.93.6 to Version 2009.93.7:

SWAT2009.mdb Database:

1. The seprng table has been updated to modify min max and default values.
2. The septwqrng table has been updated to modify min max and default values.
3. The hrurng table has been updated to include new parameters.
4. The gwrng table has been updated to include new parameters.
5. The chmrng table has been updated to include new parameters.
6. The hrurng table has been updated to include new parameters.
7. The pndrng table has been updated to include new parameters.
8. The septwq and septwqdefault tables have been updated to modify values.

Project Setup:

1. Added checks in opening a SWAT project to update table structures for projects built with previous versions of ArcSWAT.

Watershed Delineation:

1. None

HRU Analysis:

1. None

Write Input Files:

1. Modified creation of hru, gw, chm, pnd, cio, and sub tables to include new parameters

2. Added creation of “sno” table for subbasin level snow parameters. This table gets created when the sub table is written.

Edit SWAT Inputs:

1. Modified gw edit form to include new parameters
2. Modified hru edit form to include new parameters.
3. Modified pnd edit form to include new parameters.
4. Modified chm edit form to include new parameters.
5. Modified sub edit form to include launching of new subbasin snow parameters editing.
6. Modified writing of gw, hru, pnd, chm, and sub files to include new parameters.
7. Created writing of new “.sno” files for subbasin level snow parameters.
8. Modified the Crop Database edit form so that whenever the form closes, the “crop.dat” and “CropLu.txt” files get updated.
9. Modified the Urban Database edit form so that whenever the form closes, the “urban.dat” and “UrbanLu.txt” files get updated.

SWAT Simulation:

1. Added additional inputs for the “file.cio” file (printing of output.mgt and snowband.out) in the “Run SWAT” interface.
2. Added the option to specify the version of swat2009.exe to run (32-bit, 64-bit, debug, and release versions). The “release” versions run considerably faster than the debug versions.