

ArcSWAT 2.1.6 Release Notes

9/14/09

Updates\Bug Fixes from Version 2.1.5a

Watershed Delineation:

1. An option was added to skip stream geometry check. The default is to check stream geometry. This is important for subbasin streams that have multiple branches. This is most common when user-defined subbasins are used, however, can also arise when users add and delete subbasin outlets manually. Skipping the stream geometry check saves processing time in watersheds with large numbers of subbasins. The main effect of skipping the geometry check is that in cases where a subbasin has a stream with multiple branches, the total length of all branches combined will be set to the reach length for that subbasin.
2. An option was added to skip longest flow path calculations. The default is to calculate the longest flow path for each subbasin using the DEM. This process is computationally intensive and can take a long time when there are a large number ($> 10,000$) of subbasins. If this option is skipped, then the longest flow path in each subbasin is set to the length of the main channel reach.

HRU Analysis:

1. Small discrepancies in watershed and subbasin areas reported in the initial "Land Use, Soils, Slope Distribution Report" and the "Final HRU Distribution Report" had been observed. This was a result of raster versus vector-based area calculations. This issue has been resolved and all reported areas are now consistent.
2. A situation was discovered where the areas of HRUs were incorrectly calculated when a land use defined as a "split land use" was also specified as an "exempt land use". This situation could result in HRU areas that were several percent too large. This error has now been corrected.

Write Input Files:

1. Increased the maximum years of weather data allowable to import from 100 years to 150 years for daily data.