

Release Notes for IWFM Version 3.02.159

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This version of IWFM includes the following changes:

1. **(4/1/2014)** A check is included if the initial root zone moisture is greater than the total porosity.
2. **(8/25/2014)** In certain cases top and bottom elevations of an aquifer layer was calculated incorrectly. This was corrected. Also the code was modified for more efficient calculations of the aquifer top and bottom elevations.
3. **(11/4/2014)** The new version of the Intel compiler generated a floating point overflow error when the y-coordinates of the two nodes of an element face were the same. This issue was remedied with new coding.
4. **(11/4/2014)** A new data check is included to make sure that surface flow generated at each element either flows into a stream node or outside the model area.
5. **(11/4/2014)** A new data check is included to make sure that that is at least one active aquifer layer at each groundwater node.
6. **(11/4/2014)** A new data check is included to make sure that stream bed elevations and stream rating tables are entered sequentially in the Pre-processor.
7. **(11/5/2014)** A new data check is included to make sure that when KUSAGE in the Parameter Data File is set to zero (i.e. values listed for root zone soil K are the fraction of excess soil moisture that will become deep percolation instead of hydraulic conductivity) K values for the root zone are between 0 and 1.

8. **(11/5/2014)** A new data check is included to make sure that simulation time step entered in the Simulation Main File is valid.
9. **(11/5/2014)** The scaling of Newton step is updated to establish a more robust Newton-Raphson solution procedure.
10. **(11/5/2014)** A new data check is included to make sure that root zone field capacity is less than total porosity.
11. **(11/5/2014)** A new data check is included to make sure that time units for input data are entered correctly. For instance, now “1 DAY” (instead of “1DAY”) will generate an error.