

Release Notes for IWFM Version 4.0.331

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This version of IWFM includes the following modifications and corrections:

1. **(10/06/2014)** In time-series input files, if the DSS input filenames were left blank using tabs IWFM was not recognizing these tabs as empty filename and was emitting an error message. This was corrected.
2. **(10/08/2014)** In Root Zone Component Versions 4.0 and 4.1, it is now possible to distribute the total urban demand for a city to the corresponding grid cells with respect to urban area in each of these cells. This setup allows the user to input time-series urban demands for each city in the model area and IWFM dynamically distributes the total demand to grid cells based on the urban area as the urban acreage changes throughout the simulation period.
3. **(10/20/2014)** To make the solver for the variably saturated flow equations used in the root zone and unsaturated zone components more robust, after 20 iterations of Newton-Raphson method bisection method is used.
4. **(10/20/2014)** A bug that occasionally caused convergence issues when soil moisture was equal to total porosity in the simulation of ponded crops was corrected.
5. **(11/04/2014)** The new version of the Intel Fortran compiler generated a floating-point overflow error in processing the grid geometry when an element face has two nodes with the same y-coordinate. This issue is fixed with modified coding.

6. **(11/12/2014)** A new data check is included to make sure that surface flow generated over each grid cell flows into a destination (stream node, subregion, lake, or another grid cell) that is actually modeled.
7. **(11/12/2014)** In Pre-processor it is now checked that the time unit for the stream rating tables is specified properly.
8. **(11/15/2014)** When tile drains were not simulated, the procedure that converts time unit of tile drains to simulation unit was causing an error. This is fixed by checking if tile drains are simulated before attempting to convert time unit.
9. **(11/19/2014)** The scaling of Newton step is updated to achieve a more robust iterative solution method.