

## **Release Notes for IDC Version 4.0.331**

**(Emin Can Dogrul; DWR)**

### **IMPORTANT NOTE:**

**Starting with IDC v4.0.266, the definition of the irrigation trigger minimum soil moisture for non-ponded crops is changed (please see note 2 in *Release Notes for IDC version 4.0.266* as well as the IDC Theoretical Documentation). This change requires the modification of the values for this parameter in existing models using versions of IDC before v4.0.266 if these models will be migrated to this version.**

This version of IDC 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 IWFEM 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 IWFEM 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 root zone flow equation 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.