

Release Notes for IDC Version 4.0.266

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IMPORTANT NOTE:

In this version of IDC, the definition of the irrigation trigger minimum soil moisture for non-ponded crops is changed (please see note 2 below as well as the IDC Theoretical Documentation). This change requires the modification of the values for this parameter in existing models if these models will be migrated to the new version of IDC.

This version of IDC includes the following modifications and corrections compared to IDC v4.0.226:

1. **(12/11/2012)** Irrigation period flags were included in simulating the ponded crops. This was done because for flooded decomposition of rice, farmers generally fill the ponds in fall and leave the ponds alone for the rest of the fall and winter instead of trying to maintain a certain pond depth. With the original approach of specifying pond depths during decomposition period, IDC was calculating a water demand that did not exist in real world. The new approach modified the following input template files:
 - Root Zone Main Input File (added a new variable to list the name of the Irrigation Periods File)
 - Non-Ponded Crops Main Input File (deleted the variable for the name of the Irrigation Periods File)

- Ponded Crops Main Input File (a new section is added so that flags for irrigation periods can be listed)
2. **(02/26/2013)** The definition of the irrigation trigger minimum soil moisture is changed and the source code is modified accordingly. In the previous version of IDC, irrigation trigger soil moisture was defined as a fraction of the field capacity. In this version of IDC, it is defined as a fraction of the Total Available Water (TAW = field capacity – wilting point) to be consistent with the definitions given in FAO Paper 56 (Crop evapotranspiration – Guidelines for computing crop water requirements, Allen et. al, 1998).