**IRRIGATION INPUTS**

**Irrioptions file**

The irrioptions file, comprehend all the options related to irrigation frequency, volume, irrigation triggering and so on. It is composed by the following parameters:

* irriopt: It referes to the available irrigation options that can be handled by the software.
  + irriopt =0. Select a file containing all the irrigation events and the volume of water applied (in mm/day) in each one. A sample file can be found into the irrigation folder (sampleIrriFile)
  + irriopt =1. A fixed irrigation volume will be applied at the frequency established on irricycle option. The program creates an irrigation file based on end user definitions
    - irricycle. If irriopt=1 an irrigation cycle must be defined. The irrigation cycle refers to the days between consecutive irrigation. For instance, if irricycle =1 irrigation will take place every 2 days
    - irrivol. Refers to the amount of water delivered per irrigation event in mm/h.
    - irrihour. The number of hours that the irrigation system will be working (only integers)
    - irriHourstart. Starting hour for the irrigation (from 0 to 24)
    - irriDateStart: Starting date of the irrigation. Format must be YYYY-MM-DD
  + irriopt =2. Irrigation is triggered when a defined stem water potential is reached
    - irriThreshold. If irriopt =2, an irrigation threshold needs to be defined. This value must be introduced in negative kPa ( example irriThreshold =-2000kPa, equivalent to -2MPa)
    - irrivol. Refers to the amount of water delivered per irrigation event in mm/h.

**Mange file**

The manage file details the fraction of wetted area by the irrigation system and the fraction of water volume applied in each soil compartment. The model can handle an infinite number of soil compartments. The must be defined into the manage file following the subsequent format: "fsoil\_ (number of the compartment). fsoil\_1". The same is true for the fraction of water volume ( for instance: irriap\_1)

* fsoil\_x: defines the fraction of soil of each soil compartment. It has no units and must be in times one.
* irriap: defines the fraction of irrigation volume diverted to each soil compartment. It has no units and must be in times one.

**Note: All the files must be in csv format. Do not use semicolons to separate**