Folder structure

MAIZSIM07 (or whatever name you give it)

CreateSoils

BaseFolderForSims

Sim1

ExcelDataTables.xlsx

Water.dat

Waterbound.dat

Executables

ExcelInterface

The executables are called 2DMaizSim.exe, 2DRyeSim.exe, 2DGlycim.exe, 2DSpud.exe and 2dGossym.exe

To run model, open a DOS window and navigate to BaseFolderForSims and then the model as execute as

D:\MAIZSIM07\BaseFolderForSims > 2dMaizSim.exe .\Sim1\runsim1.dat

Use ‘Maizsim07’ if you name your base folder this way and it is on the d drive. The command you run on the command line is the ‘2DMaizsim.exe’ ‘ .\Sim1\runsim1.dat’. The texe after the ‘exe’ is the command line argument that points 2dsoil to the run file. For the different models use the appropriate name as above.

If you do a lot of simulations you create a batch file with all the commands on rows.

The files waterboundary.dat and water.dat are now in the base folder to minimize repetition since the same file is used for all the simulations. (someday I’ll change that but I am still trying to figure out what to do with them).

I have built simulations with 7000 folders using this tool. It is very handy if you need to automate the creation of files. I use SAS to populate the excel data file programmatically.