FIRST DATE TIPS FOR AQUACROP

Dimitris Skuras,
Researcher, University of Patras

Outline

1. What is AquaCrop

2. Calibrating AquaCrop – Basic Requirements
   ◦ Climatic data
   ◦ Crop data
   ◦ Soil data

3. Running simulations

4. Hands on!!!

What is AquaCrop?

- AquaCrop is the crop growth model developed by FAO

- AquaCrop simulates the yield response of herbaceous crops to water and is particularly well suited to conditions in which water is a key limiting factor in crop production

- It estimates (among very many other things):

  o Net Irrigation Requirements

  o Irrigation Schedules under different irrigation techniques

  o Net Irrigation Requirements under Field Management

What is AquaCrop - Very rich in resources

- Download (free) at: www.fao.org/aquacrop

- An AquaCrop-GIS version for a high number of simulations

- An AquaCrop plug-in programme for GIS or other software

- AquaCrop is in English and French as from v. 6.1

- Publications

- Reference manuals

- Training handbooks and

- A series of **43 tutorials** to learn how to use AquaCrop

- Online resources and software for climate and crop data

Calibrating AquaCrop to your case study and crops

Climatic data

Temperature (Min and Max, rainfall, Humidity, Wind Speed, Radiation) at daily, 10-day or monthly intervals

- o Don't worry: Use CLIMWAT with over 5000 stations worldwide
- o Download CLIMWAT at: http://www.fao.org/land-water/databases-and-software/climwat-for-cropwat/en/

Crop specific data

Sowing/transplanting, time period to flowering and maturity, canopy cover (at various stages).

- o Don't worry (again). A lot of information at the local agronomy schools, information on major crops from FAO at: http://www.fao.org/land-water/databases-and-software/crop-information/en/

Other requirements (soil type, groundwater, fertility issues)

THANK YOU

Dimitris Skuras

skuras@econ.upatras.gr