Economic and Social Commission for Western Asia

First Jordanian National Training Workshop on AquaCrop for Irrigation Water Management
Princess Sumaya University for Technology, Faculty of Computing Sciences
Amman, Jordan, 27 – 31 October 2019

Provisional Agenda

Day 1: Sunday, 27 October 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08:30 - 09.15</td>
<td>Registration.</td>
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<tr>
<td>09:15 – 09:30</td>
<td>Welcome statement by ESCWA &amp; ACSAD and Tour de Table</td>
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<tr>
<td>09:30 - 10.30</td>
<td>Introduction to the Course/Presentation of AquaCrop User-Interface</td>
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<td>10:30 – 10:50</td>
<td>Coffee Break</td>
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<tr>
<td>10:50 – 12:30</td>
<td>Practical Exercise/Structure of AquaCrop and a First Simulation Run</td>
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<td>12:30 – 13:30</td>
<td>Lunch Break</td>
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<tr>
<td>13:30 – 14:00</td>
<td>Climatic Data/Reference ET (ETo), Required Weather Data for AquaCrop, Agroclimatic Data Collection and Processing</td>
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<tr>
<td>14:00 – 15:30</td>
<td>Practical Exercise/Database Management (Climate): Input of Climatic Data and Calculation of ETo in AquaCrop</td>
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Wrap up of Day 1
Day 2: Monday, 28 October 2019

09:00 – 10:30  Soil Characteristics: Soil Physical Characteristics; Soil Water Content, Soil Water Balance, and Soil Water Movement. Specification of Soil Characteristics in AquaCrop

10:30 – 10:50  Coffee Break

10:50 – 12:30  Practical Exercise/Database Management (Soil): Creating and Updating Projects

12:30 – 13:30  Lunch Break

13:30 – 14:00  Crop Characteristics/Tuning of Crop Characteristics to Local Environment

14:00 – 15:30  Practical Exercise/Database Management (Crop), Fine Tuning of Crop Characteristics to the Environment

Wrap up of Day 2

Day 3: Tuesday, 29 October 2019

09:00 – 10:30  Crop Development and Rainfed Farming Productivity/ Crop Development; Crop Transpiration; Biomass Production; and Crop Yield, Rainfed Farming: Initial Soil Water Content; Start of Growing Cycle.

10:30 – 10:50  Coffee Break.

10:50 – 12:30  Practical Exercises/Initial Soil Water Content, Start of Growth Cycle. (Rainfed Agriculture)


13:30 – 14:00  Field Management/Field Surface Practices; Mulches; Soil Fertility and Crop Responses, Calibration of Soil Fertility Stress

14:00 – 15:30  Practical Exercise/Database Management (Field Management), Case of Limited Soil Fertility

Wrap up of Day 3

Day 4: Wednesday, 30 October 2019

09:00 - 10.30  Determination of Crop Water Requirements:
- Determination of Crop Water Requirements by Penman-Monteith Equation and Pan Evaporation
- Determination of Crop Water Requirements Using AquaCrop Software
- Irrigation Scheduling
- Irrigation Scheduling Using AquaCrop Software

10:30 – 10:50  Coffee Break
10:50 – 12:30  Practical Exercises/Full Irrigation Scheduling
12:30 – 13:30  Lunch Break
13:30 – 14:00  Deficit Irrigation - Deficit Irrigation Scheduling Using AquaCrop Software
14:00 – 15:30  Practical Exercise/Deficit Irrigation Scheduling

Wrap up of day 4

Day 5: Thursday, 31 October 2019

09:00 – 10:00  Supplementary Irrigation/Supplementary Irrigation Scheduling Using AquaCrop Software
10:00 – 10:30  Practical Exercises/Supplementary Irrigation Scheduling
10:30 – 10:50  Coffee Break
10:50 – 12:30  Practical Exercises/Supplementary Irrigation Scheduling
12:30 – 14:00  Friday Prayer /Lunch Break
14:00 – 15:00  Closing Session