Economic and Social Commission for Western Asia

First Lebanese National Training Workshop on AquaCrop for Irrigation Water Management
UN House, Beirut, Lebanon, 19 – 23 August 2019

Provisional Agenda

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30 - 09.00</td>
<td>Registration.</td>
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<tr>
<td>09:00 – 09:15</td>
<td>Welcome statement by ESCWA &amp; ACSAD and Tour de Table</td>
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</tbody>
</table>
| 09:15 – 09:30 | Overview of the ESCWA Project on “Enhancing Resilience and Sustainability of Agriculture in the Arab region”<br>
                 *Ms. Lara Geadah, Economic Affairs Assistant, Food and Environment Policies Section, ESCWA* |
| 09:30 - 10.30 | Introduction to the Course/Presentation of AquaCrop User-Interface     |
| 10:30 – 10:50 | Coffee Break                                                            |
| 10:50 – 12:30 | Practical Exercise/Structure of AquaCrop and a First Simulation Run     |
| 12:30 – 13:30 | Lunch Break                                                             |
| 13:30 – 14:00 | Climatic Data/Reference ET (ETo), Required Weather Data for AquaCrop, Agroclimatic Data Collection and Processing |
| 14:00 – 15:30 | Practical Exercise/Database Management (Climate): Input of Climatic Data and Calculation of ETo in AquaCrop |

Wrap up of Day 1
## Day 2: Tuesday, 20 August 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00 – 10:30</td>
<td>Soil Characteristics: Soil Physical Characteristics; Soil Water Content, Soil Water Balance, and Soil Water Movement. Specification of Soil Characteristics in AquaCrop</td>
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<tr>
<td>10:30 – 10:50</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>10:50 – 12:30</td>
<td>Practical Exercise/Database Management (Soil): Creating and Updating Projects</td>
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<tr>
<td>12:30 – 13:30</td>
<td><strong>Lunch Break</strong></td>
</tr>
<tr>
<td>13:30 – 14:00</td>
<td>Crop Characteristics/Tuning of Crop Characteristics to Local Environment</td>
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<tr>
<td>14:00 – 15:30</td>
<td>Practical Exercise/Database Management (Crop), Fine Tuning of Crop Characteristics to the Environment</td>
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**Wrap up of Day 2**

## Day 3: Wednesday, 21 August 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>09:00 – 10:30</td>
<td>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.</td>
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<tr>
<td>10:30 – 10:50</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>10:50 – 12:30</td>
<td>Practical Exercises/Initial Soil Water Content, Start of Growth Cycle. (Rainfed Agriculture)</td>
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<tr>
<td>12:30 – 13:30</td>
<td><strong>Lunch Break.</strong></td>
</tr>
<tr>
<td>13:30 – 14:00</td>
<td>Field Management/Field Surface Practices; Mulches; Soil Fertility and Crop Responses, Calibration of Soil Fertility Stress</td>
</tr>
<tr>
<td>14:00 – 15:30</td>
<td>Practical Exercise/Database Management (Field Management), Case of Limited Soil Fertility</td>
</tr>
</tbody>
</table>

**Wrap up of Day 3**

## Day 4: Thursday, 22 August 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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</thead>
</table>
| 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: Friday, 23 August 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00 – 10:00</td>
<td>Supplementary Irrigation/Supplementary Irrigation Scheduling Using AquaCrop Software</td>
</tr>
<tr>
<td>10:00 – 10:30</td>
<td>Practical Exercises/Supplementary Irrigation Scheduling</td>
</tr>
<tr>
<td>10:30 – 10:50</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:50 – 12:30</td>
<td>Practical Exercises/Supplementary Irrigation Scheduling</td>
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<tr>
<td>12:30 – 14:00</td>
<td>Friday Prayer /Lunch Break</td>
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<tr>
<td>14:00 – 15:00</td>
<td>Closing Session</td>
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