Bachelor of Biosystems Technology Faculty of Technology South Eastern University of Sri Lanka



BSE 11042 Principles of Irrigation

Assignment 1a

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CROPWAT – A Computer Program for Irrigation Planning and Management

CROPWAT is a decision support system developed by the Land and Water Development Division of FAO. Its main functions are:

To calculate:

Reference evapotranspiration Crop water requirements Crop irrigation requirements

To develop:

Irrigation schedules under various management conditions Scheme water supply

To evaluate:

Rainfed production and drought effects Efficiency of irrigation practices

1) Check the following website and get the basic information on the program and its features. http://www.fao.org/land-water/databases-and-software/cropwat/en/

2) Then download the CROPWAT 8 for WINDOWS (<u>http://www.fao.org/fileadmin/user_upload/faowater/Applications/CRW8.ZIP</u>) from the link given in the above website

Unzip the file and Install CROPWAT to the computer.

When the software is installed, you can use the help also to learn about the software use and application.

3) Read the manual and operate the CROPWAT software by your own. If you need any assistance, please feel free to contact the relevant academic staff members.

When you are familiar with the software, then you can move to the following.

4) You are asked to apply the CROPWAT for the following: As given in Assignments 2 b, c and d.