

Nairobi WEAP Training Agenda

Introduction

A training in the use of the Water Evaluation and Planning software will be presented for October 13 – 17, 2014 in Nairobi, Kenya. Presented here is an agenda for the training which includes a combination of training sessions based on the WEAP tutorial as well as practical exercises based on a real river basin. Trainees will also have the opportunity to discuss their personal WEAP projects with the trainers.

Session Descriptions

1. Opening and introduction - During this session the training will be introduced. This will include an introduction of the participants and introduction of the trainers. Following that, there will be a presentation on water resources modeling and the WEAP software in particular.
2. WEAP in one hour - this first hands-on session will introduce the trainees to the WEAP graphical user interface and to the basic skills required in working with the software. This tutorial has a simple problem in which the balancing of demand and supply is introduced.
3. Basic tools in WEAP - this hands-on session introduces the user to the basic functionality in WEAP that allows for specification of parameters, equations, and operations rules. This functionality will be used in later sessions to build more sophisticated representations of supply and demand.
4. Scenario analysis in WEAP - this hands-on session introduces the concept of scenarios in WEAP. This functionality is a very powerful tool which allows users to easily study "what if" questions using the software.
5. Refining the demand - this hands-on session will guide the trainees as they disaggregate the demand into a more detailed representation of demand. It will also cover the setting of demand priorities.
6. Refining the supply – in this hand-on session the trainees will learn about supply priorities, the modeling of reservoirs, in-stream flow requirements, and simple models of groundwater supplies.
7. Data, results, and formatting – this hands-on session focusses on methods for working with input data formats, presenting results, and changing the appearance of the model schematic.
8. Reservoirs and Power Production – this hands-on session will introduce the trainees to modeling reservoir operations including power production. It will also introduce the run-of-river hydropower modeling object.

9. Hydrology – this tutorial will introduce the different methods to simulate hydrology in the WEAP software.
10. Modeling agricultural water use in WEAP – this tutorial will introduce the different methods available for simulating agricultural water use.
11. Water quality – this tutorial will introduce the trainees to the water quality functionality in WEAP.

Workshop Agenda

Time	Day 1	Day 2	Day 3	Day 4	Day 5
8:00 – 10:00	Opening and Introduction Tutorial - WEAP in one hour	Tutorial – Refining the demand	Tutorial – Hydrology	Exercise – Specifying demands in the Sample Basin	Exercise – creating scenarios in the Sample Basin
10:00 – 10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30 – 12:00	Tutorial – Basic tools in WEAP	Tutorial - Data, results and formatting	Tutorial - Water quality	Tutorial – Modeling agricultural water use in WEAP	Exercise – creating scenarios in the Sample Basin (cont.)
12:00 – 13:00	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
13:00 – 15:00	Tutorial – Scenario analysis in WEAP	Tutorial – Reservoirs and power production	Field trip to Ruiru dam	Exercise – hydrology calibration in the Sample Basin	Presentation and discussion of Sample Basin models
15:00 – 15:30	Coffee Break	Coffee Break		Coffee Break	Coffee Break
15:30 – 17:00	Tutorial - Refining the supply	Introduction to Sample Basin		Exercise – Operating reservoirs in the Sample Basin	Presentations continued and Workshop closing