

WORKSHOP

WATER FOOTPRINT APPLICATION FOR WATER RESOURCES MANAGEMENT IN AGRICULTURE

Rome, 16 April 2013

INEA, Sala Serpieri, Via Nomentana 41

As a main water user, agriculture influences the regional water resources, which are available for all key sectors. In most regions of the world, agricultural production systems are very vulnerable to a potential decrease in water availability. Moreover, increasing world population and the consequent increasing need for food, feed and bioenergy will require a more efficient agriculture and therefore irrigation will become an absolute need. However, under climate change water scarcity is likely to impose limits on irrigation enlargement in many countries. This means that the sustainable and efficient management of the water resources defined through an interdisciplinary approach, high-level scientific information and harmonized data and

guidelines will become a primary goal. In particular, a holistic approach is needed to solve the growing water conflicts driven by the increasing scarcity of water resources. Agricultural water use efficiency should not be considered any longer only at the local level but should rather be examined at the catchment scale and beyond. In this respect, new concepts and indicators, such as virtual water and water footprint, are gaining increasing recognition as management and planning instruments. National, international institutions and leading experts in this sector will take part in the workshop which will provide a perfect environment for the exchange of opinions, experiences and knowledge.



COST is supported
by the EU RTD
Framework Programme



ESF provides the COST
Office through a European
Commission contract



Water Footprint
NETWORK



UNIVERSITÀ
DEGLI STUDI
FIRENZE
DISPAA
DIPARTIMENTO SCIENZE DELLE
PRODUZIONI AGRICOLE E
EQUILIBRIAMENTO



9.00 REGISTRATION

9.30 WELCOME ADDRESS: **Tiziano Zigiotta**, PRESIDENT OF INEA

9.50 SESSION 1 > CHAIR: **Alessandro Monteleone**, INEA

COST Action ES1106 "EURO-AGRIWAT"

Anna Dalla Marta, UNIVERSITÀ DEGLI STUDI DI FIRENZE, UNIFI

Waterfootprint as an indicator to improve the sustainability of food systems

Alexander Maybeck, FAO

Drought Risk Management and Role of National Drought Policies

Sivakumar Mannava, WMO

11.00 COFFEE BREAK

11.30 SESSION 2 > CHAIR: **Anna Dalla Marta**, UNIVERSITÀ DEGLI STUDI DI FIRENZE, UNIFI

Who determines the demand for food and who manages water?

Tony Allan, KING'S COLLEGE LONDON

Water Footprint Assessment: An essential tool to understand and manage water in agriculture

Ashok K. Chapagain, WATER FOOTPRINT NETWORK

Climate Change, Wheat Water Use and Water Use Efficiency

Qunying Luo, UNIVERSITY OF TECHNOLOGY OF SYDNEY

Water management in Montenegro

Mirko Knezevic, UNIVERSITY OF MONTENEGRO, BIOTECHNICAL FACULTY

The use of seasonal climate forecasting in stream flow forecasting and agricultural management in Australia

Roger Stone, AUSTRALIAN CENTRE FOR SUSTAINABLE CATCHMENTS, UNIVERSITY OF SOUTHERN QUEENSLAND

Recent Advances and Challenges in Natural Resource Monitoring and Decision Support

Rey Motha, GEORGE MASON UNIVERSITY, USA

13.30 END OF THE WORKSHOP



650 Barley
(500 g)



650 Wheat
(500 g)



1400 Sorghum
(500 g)



2500 Millet
(500 g)



650 Toast
(500 g)



750 Cane Sugar
(500 g)



90 Tea
(750 ml)



840 Coffee
(750 ml)



2500 Burger
(150 g beef)



4650 Beef
(300 g)



1000 Milk
(one litre)



2500 Cheese
(500 g)

One drop is equivalent to 50 litres of virtual water.

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ORGANIZERS

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