



CIHEAM
ZARAGOZA

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Director

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EUROPE – INBO 2023



WATER AND AGRICULTURE: MANAGEMENT OF NONPOINT SOURCE POLLUTION



About the CIHEAM

(Centre International de Hautes Etudes Agronomiques Méditerranéennes)



CIHEAM
ZARAGOZA



- We are an international and intergovernmental organization

- The organization was created in May 1962

- Our main mission is agrifood cooperation



- We have 13 member countries

(But we are open to all the Mediterranean countries)

- Our Headquarters are in Paris



- Our activities are performed in 4 Institutes:

Bari (Italy), 1962

Montpellier (France), 1962

Zaragoza (Spain), 1969

Chania (Greece), 1983



Our main functions



CIHEAM
ZARAGOZA

- Education and Capacity Building
- Research and Innovation Projects
- Networks and Open Knowledge Platforms
- Technical Assistance and Development Projects
- Policy Dialogue and Partnerships



a. Master Programme

Sustainable Water Management and Governance in Natural and Agricultural Environments. Zaragoza, Spain. 2022/2024

Co-organized with INIA-CSIC



Objective

To train future professionals to face the challenges of water management and governance in the natural and agricultural environment with an integrative and interdisciplinary approach

2 years, 120 ECTS

Next edition:

September 2024



b. Advanced courses (examples)

- **Efficient water use in olive groves in a context of climate change**
18-22 September 2023. Zaragoza, Spain
Organized by: CIHEAM Zaragoza/OIC
- **Integrating the Water-Energy-Food-Ecosystem (WEFE) nexus approach in Mediterranean irrigated agriculture**
6-11 November 2023. Zaragoza, Spain
Organized by: CIHEAM Zaragoza/Prima Foundation/ICARDA
- **Sustainable water and soil management for resilient viticulture**
1 - 6 July 2024. Zaragoza, Spain
Organized by: CIHEAM Zaragoza/OIV





c. Advanced course on non-point source pollution (2024/2025)

Main contents

1. .- Foundations of Non-Point Source Pollution in surface water (inland and coastal waters) and groundwater: sources, typology of pollutants (nutrients, pesticides, salinity, trace elements, pathogens) and mapping
- 2.- Principles of hydrology and water quality: fate and transport of NPS pollutants in the environment
- 3.- Contamination of agricultural origin
- 4.- Methodologies for measurement, monitoring and evaluation
- 5.- Environmental and socio-economic impacts at multiple scales
- 6.- Control of diffuse pollution from agricultural origin: best management practices (technological, nature-based and behavioural solutions)
- 7.- Control of diffuse pollution from agricultural origin: policy instruments (regulation and economic incentives)
- 8.- Addressing groundwater pollution. Treatment and challenges for their implementation challenges





c. Advanced course on non-point source pollution (2025)

Main features

- The course is designed for participants with a university degree.
- It is aimed at professionals from public or private organizations, such as decision-makers, technical advisors, agronomists, environmentalists, engineers and R&D specialists, dealing with or interested in the non-point source pollution in the Mediterranean.
- Twenty-five places available for face-to-face participation (lectures, practical work and debate) and twenty-five places for online participation (lectures and debate), the course being open to applicants from all countries.
- We offer some scholarships for participants from CIHEAM countries.



Collaborate with us if you share our mission!



CIHEAM International Center for Advanced
Mediterranean Agronomic Studies
Sharing Knowledge, Feeding the Future



Protect
the planet



Food security
and nutrition



Inclusive
development



Crises and
resilience

