WATER AND AGRICULTURE: MANAGEMENT OF NONPOINT SOURCE POLLUTION
About the CIHEAM
(Centre International de Hautes Etudes Agronomiques Méditerranéennes)

- 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

• Education and Capacity Building
• Research and Innovation Projects
• Networks and Open Knowledge Platforms
• Technical Assistance and Development Projects
• Policy Dialogue and Partnerships
Education and training activities in water

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
Education and training activities in water

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