

# The environmental impact of inputs used in the vitivinicultural sector in Algeria

## **Kaddour El Heit**

Professor, Laboratory of Natural Resources: Viticulture/Arboriculture. Faculty of Biological Sciences and Agronomic Sciences. University Mouloud Mammeri. TiziOuzou. 15,000. Algeria .

[Kaddy62003@yahoo.fr](mailto:Kaddy62003@yahoo.fr)

## **Abderazak Hamama**

PhD, Laboratory of Natural Resources: Viticulture/Arboriculture. Faculty of Biological Sciences and Agronomic Sciences. University Mouloud Mammeri. TiziOuzou. 15,000. Algeria

[Abderzak\\_hamama@yahoo.fr](mailto:Abderzak_hamama@yahoo.fr)

## **Abderrahmane Mellak**

Hydrocarbons and Chemicals Faculty - LGHP –

University of Boumerdes,

Boumerdes – Algeria.

[mellakabder@yahoo.fr](mailto:mellakabder@yahoo.fr)

## **Abstract**

The environmental impact of inputs used in the wine sector is very poorly documented. The wine sector and industrial activities adjacent accompanying seem overly voracious inputs compared to other agricultural activities. The wine sector known to drain a high employment flows in agricultural; it is also one of the most concerned with the issue of agricultural sustainability. So two questions are posed by the demand for inputs. Is she justified in comparison with its economic and social importance? Is she managed according to appropriate technical standards? Our research tries to estimate the carbon footprint and water production products and by-products of wine activities to evaluate its role in global climate change linked to anthropogenic activities and parallel to determine equally the negative role vine effluents discharged into nature and watercourses and possible risk of groundwater pollution.

## **Keywords**

Inputs, wine growing, fertilization, pesticides, direct energy

## **Biography**

**Kaddour EL HEIT** is a research professor with the rank of Professor- Doctor in Agricultural Sciences at the University Mouloud MAMMERI Tizi Ouzou (Algeria). He holds the following diplomas: Engineer Viticulture / Oenology, a postgraduate degree in Agricultural Development, a Diploma of Advanced Studies (DEA) in rural analysis and a PhD in rural development and regional analysis from the University of Paris-Sorbonne Ponthéon (France). Training manager License in Plant Production Sciences and a Master in Sciences of the vine.

**Kaddour EL HEIT** is Expert on the development of viticulture in Algeria. Having in these research programs launched characterization studies ampelographic, ampélométric and molecular indigenous grape varieties with the discovery of more than fifty new and unknown grape varieties from among the International Collection Vassal (Marseillan sur Mers) France. He worked in the establishment of two master plans for the development of watersheds reservoirs two dams for irrigation and urban drinking water supply

**Abderrahmane MELLAK** is Professor and Researcher Lecturer at the Faculty of Hydrocarbons and Chemistry of the University of Boumerdes, Algeria. He is an engineer in Oil Drilling (graduated in Algeria) and also holds a DEA (Diploma of Advanced Studies), a DESS (Diploma of Specialized Higher Studies) and a PhD, obtained in French Universities. It is Responsible for a team of researchers, Head of Bachelor and Master Drilling Wells, frames of United Engineers, Master, the Magister and Doctorates. The Prof. Dr. Abderrahmane MELLAK is a Member of the National Commission of Universitaires Habilitation Programs (CNH) and the National

Commission for the Evaluation of Algerian Universities (CNE), the Ministry of Higher Education and Scientific Research. He has to his credit several participations in world congresses and national and international conferences with papers and has several publications in recognized national and international journals. He participated in several television round tables (Canal Algeria, UFC) on the Quality of Higher Education, the University-Business Relationship ...). The Prof. Doc. MELLAK Abderrahmane organizes and manages her time between Higher Education, Scientific Research, the Supervision of Students and PhD students, the Consulting and Associative Life.