

Research in the Target Field (Algeria)

Localization in North Africa



Surrounded by 7 countries

1200 km of seafront

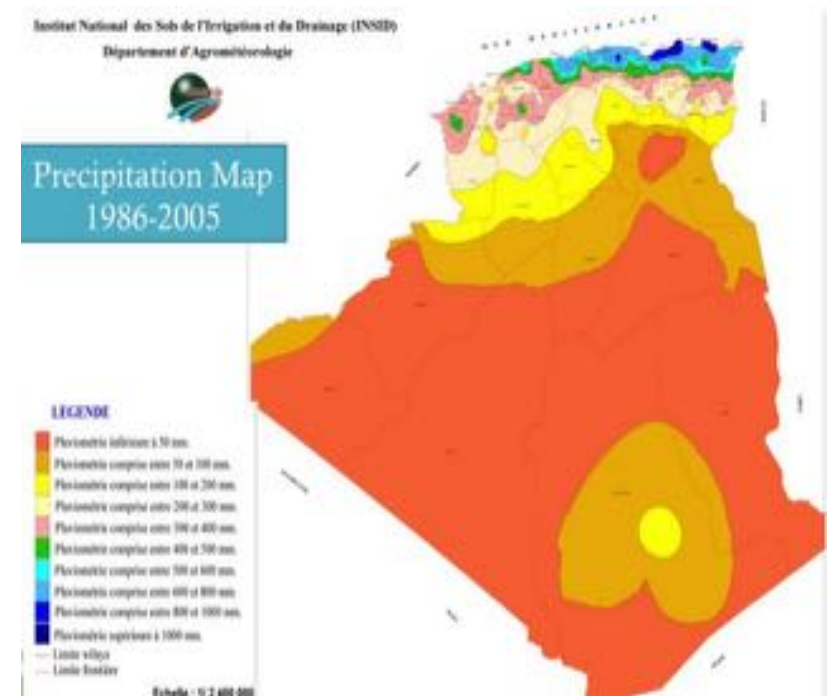
Area 2,38 million Km²

Three classes or types of climate

Mediterranean climate

Semiarid climate (Highland)

Arid climate (Sahara Desert)



84%



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Although Algeria is the second-largest country in Africa, the **arable land** of about 8.2 million hectares accounts for only **3.4** percent of the total land area. The **vast Sahara** desert, which spans much of the south central part of the country, is not available for agriculture.

The agricultural sector is a **moderate** contributor to the Algerian economy, accounting for **10%** of GDP (2013).

Drought conditions and soil quality are partly responsible for the low output of the agricultural sector.

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To cope with this situation, we must think medium and long-term solutions.

To improve our food security we must resort to precision irrigation and improve soil fertility and crop productivity aspects.

Precision agriculture.

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Among the research works carried out that have a relationship with precision farming

- Spatial prediction of topsoil salinity in the Chelif Valley, Algeria, using local ordinary kriging with local variograms versus whole-area variogram (2001)
- Spatial distribution of heavy metal concentrations in urban, suburban and agricultural soils in a Mediterranean city of Algeria (2010)
- USE OF LANDSAT TM FOR MAPPING LAND USE IN THE ENDORHEIC AREA--CASE OF GADAINÉ PLAIN (EASTERN ALGERIA). (2014)
- Fuzzy Logic Expert System for Classifying Solonchaks of Algeria (2018)
- External validation of the ASTER GDEM2, GMTED2010 and CGIAR-CSI-SRTM v4. 1 free access digital elevation models (DEMs) in Tunisia and Algeria

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- STATUS OF PRECISION IRRIGATION EFFICIENT TECHNOLOGIES IN MEDITERRANEAN PARTNER COUNTRIES (2018)
- Contribution of Satellite Imagery to Study Salinization Effect of Agricultural Areas at Northern Eastern Oasis Algerian Region (2019)
- Assessing environmental sensitivity areas to desertification in Eastern Algeria using Mediterranean desertification and land use “MEDALUS” model (2010)
- Modelling hydrology and sediment transport in a semi-arid and anthropized catchment using the SWAT model: The case of the Tafna river (northwest Algeria) (2017)
- Modeling and mapping desertification risk in eastern Algeria with Geomatic data (2010)



Thank you for you attention!



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