



T.C.
TARIM VE ORMAN BAKANLIĐI



TAGEM
AR-GE & İNOVASYON

SOIL FERTILIZER AND WATER RESOURCES CENTRAL RESEARCH INSTITUTE

ANKARA

2023



History



**T.C.
TARIM VE ORMAN BAKANLIĞI**

- The Institute was established in March 1st, 1954, in Ankara as a National Specialization Institute under the General Directorate of Agricultural Affairs with the purposes of;
- performing studies about "Soil Survey, Classification and Mapping in Turkey;
- Soil, Fertilizer, Water and Plant Analysis;
- Determining the suitability of Soils in terms of Irrigation and Soil Salinity, Alkalinity and Reclamation;
- Protection of Soil Fertility and Utilization of the Soils at Optimum Level





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Research Departments

**Agricultural
Irrigation
and Land
Reclamation**

**Soil Science
and Plant
Nutrition**

**Climate
Change and
Agricultural
Ecology**



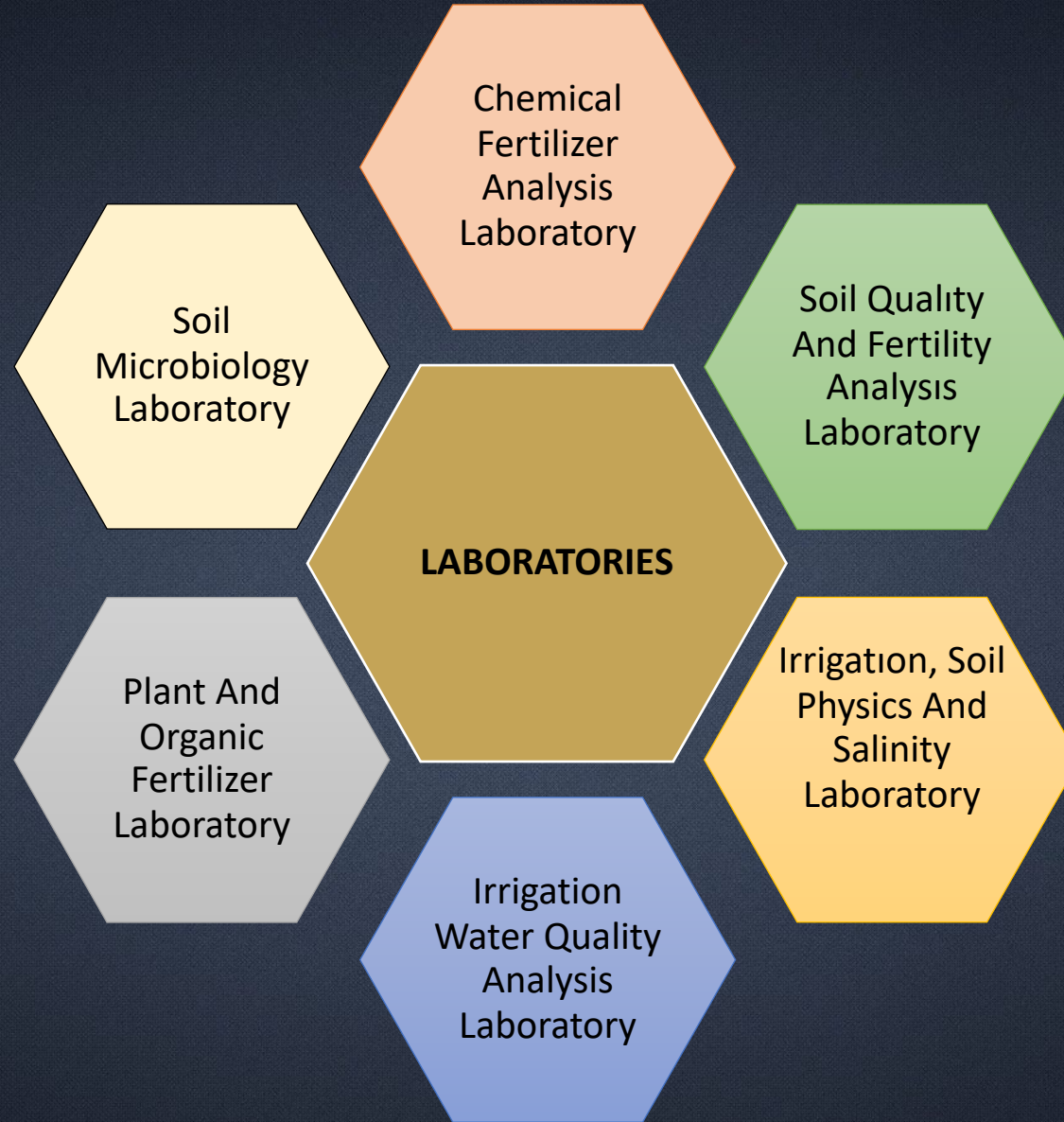
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TARIM VE ORMAN BAKANLIĞI

Our Laboratories serve as the **reference laboratory** of our ministry.

Our laboratories are authorized by our ministry as **Proficiency Testing Regulators**.

Laboratories have member **GLOSOLAN** since (2017) and **INFA** since (2021). Also, GLOSOLAN the **reference laboratory**.





SOIL ANALYSIS

Electrical Conductivity	Calcium (Ca)
Soil pH	Magnesium(Mg)
Lime	Microelement
Organic Matter	Total Nitrogen (N)
Phosphorus (P2O5)	Amonium Nitrogen (NH4-N)
Potassium(K2O)*	Nitrate Nitrogen (NO3-N)
Boron (B)	Heavy Metal

Cation and Anion	Sodyum Absorpsiyon Ratio (SAR)
Extractable Cation(%)	Exchangeable Sodium (ESP)
Cation Capacity	Bulk Density
Water Permeability	Total Pore Volume
Physical Analysis	Field Capacity
Green Emision Gas	Extractable Cation(%)
Clay Type	Water Permeability



PLANT AND FERTILIZER ANALYSIS

Total Nitrogen	Phosphorus (P2O5)*
pH*	Potassium (K2O)*
Nitrate Nitrogen	Calcium
Amonium Nitrogen	Magnesium
Urea Nitrogen	Sulfur
Phosphorus	Boron
Phosphorus Pentaoksit (P2O5)*	Nötr Amonyum Sitratta ve Suda Çöz. Fosfor (P2O5)*

Heavy Metal	Microelement
Potassium	Boron
Soluble in Water Potassium	Toplam Kükürt (S)
Total Humic	Soluble in Water Sulfur
Leaf Analysis	Total Sulfur
Organic Nitrogen	Total Carbon
Organic Matter	Magnesium



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Center of R&D

- **Geographic Information Systems**
- **Microbial Fertilizer Research, Technology Development and Culture Collection Center**



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SERVICES

In our accredited laboratories, which are accepted by the Ministry of Agriculture and Forestry as the "Reference Institute" for soil, plant and water analyses, soil, plant, fertilizer and water analysis services are provided, in addition to research project samples.

In 2022 ;

- 4099 Soil and Plant Analysis
- 376 Water Analysis
- 354 Organic Fertilizer Analysis
- 577 Chemical Fertilizer Analysis
- 60 Microbiyal Fertilizer Analysis
- 280 Proficiency Test



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TARIM VE ORMAN BAKANLIĐI

National Laboratory Network

- Have started all laboratories to make member GLOSOLAN in TURKEY.
- Have divided the two part of this process (University-Ministry)
- Our responsibility as the reference laboratory to inspect **21 ministry** laboratories.
- As Glosolan Turkey Ministry Reference, we continue to work on the establishment of the National Laboratory Network and we have started by making **10 of our laboratories** members of this network.

THANK YOU



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