

CSIR-Soil Research Institute

Mandate

To undertake scientific research to generate technologies (information), commercialize these technologies and build capacity in sustainable management of Ghana's soil resources for increased agriculture, environmental quality and improved livelihood.





Mission and Vision Statements

To generate technologies and build capacity for effective planning, development and management of the soil resources of Ghana for increased and sustainable agriculture, environmental quality and improved livelihood.

Become the centre of excellence in research, development and innovation in tropical soil resources for sustainable agriculture and environmental quality.



Research Programmes

Four (4) research programmes:

- Environmental Management and Climate Change Programme
- Soil Fertility Management Programme
- Soil and Water Management Programme
- Land Evaluation Programme



Divisions & Responsibilities

Five (5) Scientific Divisions:

1. Soil Genesis, Survey and Classification
2. Soil Chemistry, Fertility and Plant Nutrition
3. Soil and Water Management.
4. Soil Microbiology.
5. Laboratory Analytical Services.



alseñac Soil Genesis, Survey & Classification

This Division seeks to take inventory of Ghana's resources, classify and map these soils as well as evaluate them for sustainable agricultural development and other land uses.

The programmes in this Division include:

- 1) Soil suitability evaluation for land use planning (e.g., crops production, mechanization, irrigation, pasture)
- 2) Soil fertility (nutrient status) mapping
- 3) Pedological and mineralogy research
- 4) Soil survey, classification and mapping using GIS and Remote sensing

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Soil Chemistry, Fertility and Plant Nutrition

This Division seeks to generate and promote information and technologies for efficient soil fertility management towards increased crop production, enhanced food security, improved incomes for farmers and enhanced livelihood.

The Division programmes include:

1. Soil nutrient management (including: Inorganic Fertilizer Research, Organic fertilizer research, Integrated Soil Fertility Management, Precision Agriculture, Soil Fertility Regeneration)
2. Soil chemistry and fertility
3. Agroforestry
4. Soil biology and biochemistry research



alseñac Soil Chemistry, Fertility and Plant Nutrition

5. “Problem” soils management research (including Acid soils, hard pans, non-responsive soils, heavy clay soils)
6. Greenhouse and growth medium research
7. Soil health research (nematodes, soil diseases and pests, biodiversity etc.).
8. Restoration of degraded croplands and forest
9. Reclamation of degraded mining sites
10. Soil pollution prevention and manage
11. Climate Smart Agriculture
12. Soil Carbon Sequestration

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Laboratory & Analytical Services

- ❑ Judicious chemical fertilizer application will boost soil fertility and increase productivity
 - *Laboratory analytical services on soils*



MUCHAS GRACIAS

