



Advancing Digital Soil Mapping in West Africa and the Sahel

Farming Systems Agronomy Program



Soil degradation is a major threat to agricultural productivity, food security, and climate resilience across West Africa and the Sahel. Farmers, researchers, and policymakers need reliable soil information to make better decisions on fertilizer use, land restoration, and sustainable agriculture.



Our goal is to strengthen the generation and use of digital soil information for better agricultural planning, nutrient management, land restoration, and climate-resilient food systems in West Africa and the Sahel.



Benefits/Impact

So far, maps of 18 soil properties have been produced across 11.62 million hectares in priority areas of Senegal, Mali, Nigeria, Ghana, and Togo. Maps of the same 18 soil properties have also been produced across 3.9 million hectares in key watersheds, including Nigeria (Yartiti and Komadougou) and Mali (Moyen Banni, Niger Supérieur, and Haut Banni).

Advancing Digital Soil Mapping in West Africa and the Sahel is laying the foundation for smarter soil management, better agricultural investment, and more resilient food systems.

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