

4 YEARS OF 4R SOLUTION IN AFRICA



On-farm Research Framework Evaluates 4Rs in Africa

The 4R Solution Project has developed a participatory-based research framework designed to identify, evaluate, and recommend locally relevant 4R practices based on three major pillars: (1) characterization of farming systems, (2) development of site-specific 4R-based recommendations, and (3) dissemination and scaling of 4R recommendations. Working with national research partners in each of the intervention countries, the project has used surveys, on-farm experiments, and on-station trials to assess opportunities for 4R-based interventions and develop and evaluate locally feasible 4R practices.

Major deliverables from the 4R research framework

- Identification of key nutrient limitations for maize and rice production in northern Ghana, and wheat and teff production in the Amhara region of Ethiopia, using data from nutrient omission trials established on multiple farms.



- Identification of key agronomic and socio-economic constraints to maize and groundnut production in northern Ghana, and wheat and teff production in the Amhara region, via detailed agronomic and socio-economic surveys.
- Evaluation of options for incorporating 4R practices into maize and groundnut cropping systems in northern Ghana, and wheat and teff cropping systems in the Amhara region, via detailed experimental trials.

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