A new approach to fertilizer recommendations...



The Optimising Fertilizer Recommendations in Africa (OFRA) project has created tools, skills and knowledge to help farmers make decisions on maximisation of profit from their investments in fertilizer uses. OFRA is funded by The Alliance for a Green Revolution in Africa (AGRA).

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rural households in areas covered by fertilizer optimization tools that could benefit from improved livelihoods and food security



copies of a book, which includes a chapter on fertilizer use optimization in each of the 13 participating countries



crop response functions from legacy and trial data developed 13

participating countries: Burkina Faso, Ethiopia, Ghana, Kenya, Malawi, Mali, Mozambique, Niger, Nigeria, Rwanda, Tanzania, Uganda & Zambia



fertilizer optimization tools (computer and paperbased) developed in 67 agro-ecological zones papers presented at conferences

2,836

extension workers and agro-dealers trained in the use of the fertilizer optimization tool to advise small-scale farmers



mobile phone FOT app under development

ed) developed in 67
-ecological zones

1,088
researchers trained in fertilizer optimization approaches in 13 countries

scientific papers
published in journals and 24 more
papers under development

337 scientists trained in OFRA protocol & soil analysis fertilizer calibration tools developed (one for each

country)

13

integrated soil fertility management substitution tables developed (one for each country)

21



legacy datasets collated covering 37 crops or crop combinations.

7954 legacy data entries for OFRA priority crops



crops or cropping systems combinations included in at least one fertilizer optimization tool (9 cereal, 8 legumes, 3 tuber and banana)



606
OFRA field trials in an on-line database



trainers trained in linear programing, who then trained 255 researchers of whom 40 are using their new skills to improve the fertilizer optimization tools

OFRA was led by CABI and the University of Nebraska-Lincoln with the Department of Agricultural Research Services, Ministry of Agriculture and Food Security (Malawi); Ethiopian Institute of Agricultural Research; Institut d'Economie Rurale (Mali); Kenya Agricultural & Livestock Research Organization; l'institut de l'environnement et de recherches agricoles (Burkina Faso); Institute for Agricultural Research (Nigeria); Institut National de Recherche Agronomique du Niger; Mlingano Agricultural Research Institute (Tanzania); Instituto de Investigaco Agraria de Mocambique (Mozambique); National Agricultural Research Organization (Uganda); Rwanda Agriculture Board; Soil Research Institute (Ghana); Zambia Agricultural Research Institute