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RESEARCH ARTICLE

Influence of integrated nutrient application based on STCR approach on nutrient uptake of rice under rice-maize cropping sequence

■ **Amit Kumar Pandey, Ashutosh Singh and Umesh Singh**

SUMMARY

Soil testing helps the farmers to use fertilizers according to need of crops. Fertilizer use for targeted yield is an approach which take into account the crop need and nutrient present in the soil. A study on soil test crop response based integrated plant nutrient ion system (STCR) were conducted adopting targeted yield method in non-calcareous sandy loam soil of Ustifluvents at Mandan Bharti Agriculture College, Agwanpur, Saharsa during the two consecutive of 2018 and 2019. The experiment was laid out in RBD with nine treatments replicated thrice. The STCR approach with or without FYM at low, medium and high target yield markedly increase the yield and uptake of NPK of rice. Thus, the targeted yield model used to develop fertilizer precipitation equations provides a strong basis of soil fertility maintenance consistent with high productivity and efficient nutrient management for sustainable and enduring agriculture. This also improved the relationship between farmers and scientists and built confidence between them.

Key Words : Perception, Adoption, Soil health card, Farmers

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