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Category	: International Rice Research Conference
Select Theme	: Sustainable and equitable farming systems
Endorsement email	:
Keyword 1	: Decision support tools
Keyword 2	: Precision Agriculture
Keyword 3	:
Title of Entry	: Evaluation and enhancement of Rice Crop Manager (RCM) ability to increase yield and profit of rice Farmers in Bangladesh
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Rice Crop Manager (RCM), a web based country specific decision making tool that provides farmers with nutrient management guidelines and advice on crop management matched to specific field conditions and needs. International Rice Research Institute (IRRI) and Bangladesh Rice Research Institute (BRRI) jointly developed RCM Bangladesh, which after testing and validation BRRI recommended and released for use in the country in 2013. RCM aims to increase farmers' income by US\$ 100 per hectare per crop. We conducted a pilot study on evaluation and enhancement of RCM ability to increase yield and profit leading to large

scale dissemination in aman (wet season rice) 2013, boro (dry season rice) 2013-14 and aus (pre-monsoon rice) 2014 in Gazipur, Kishoreganj and Dinajpur districts. Data on adaptation of RCM recommendations by the farmers in the plots for which recommendations were given along with crop cut yield data were collected in 51 farmers' fields in aman 2013, 129 farmers' field in boro 2013-14 and 20 farmers' fields in aus 2014. Adaption of RCM recommendations compared with farmers' practice increased yields and profits in all seasons. The yield increases were 0.9 t ha⁻¹ in aman 2013, 0.4 t ha⁻¹ in both boro 2013-14 and aus 2014. The increases in profits were US\$ 172 ha⁻¹ in aman 2013, US\$ 79 ha⁻¹ in boro 2013-14 and US\$ 97 ha⁻¹ in aus 2014. The mean NPK applied were same in both RCM and farmers' practice in aman 2013. In boro 2013-14 and aus 2014, N use was increased by 10 kg ha⁻¹ but P and K uses were reduced by 4 - 9 kg ha⁻¹ and 6-18 kg ha⁻¹ , respectively.

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