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Plot-Specific N Fertilizer Management for Improved N-Use Efficiency in Rice-Based Systems of Bangladesh

Use of chlorophyll (soil plant analysis development, SPAD) meter and leaf color chart (LCC) were evaluated during the T-Aman (wet), Boro (dry) and Rabi (cold dry) seasons of 2001-02. The SPAD meter is a reliable tool to estimate the native soil N supply at an early growth stage in rice and wheat, whereas the LCC could only provide rough estimations. The critical LCC values of the IRRI-LCC color reduction below which mineral N needs to be applied were determined to be 3.5 for rice and 4.5 for wheat.