



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Asian Journal of Advances in Agricultural Research
Manuscript Number:	Ms_AJAAR_43843
Title of the Manuscript:	Use of Satellite Remote Sensing for Rice Yield Estimation: A Case Study of Polonnaruwa District, Sri Lanka
Type of Article:	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The author should do her/his best to improve the English language of the manuscript. I did some editing for the abstract because it is full of errors and hard to understand. Rewrite the following sentences in the abstract “Therefore, this study focuses on testing rice yield estimation models derived beads satellite remote sensing data. Landsat 8 OLI/TIRS images (30m spatial resolution) from Earth explorer and 8-day composite images (250m spatial resolution) from Moderate Resolution Imaging Spectro-radiometer (MODIS) sensor on-board NASA EOS Terra/Aqua satellite from 2014 to 2017were used.” with “Should be “This study focuses on creating rice yield estimation model using remote sensing data such as Landsat 8 and Modis satellite images. The images are selected from a period that ranges between 2014 and 2017.” “The observed minimum accuracy of the land cover classification, out of the tested four (4) seasons, was 99.4%, and the minimum kappa coefficient was 0.9916. The correlation between reference net harvested paddy area and identified paddy cultivated area by Landsat 8 was 0.93. Linear and exponential yield forecasting models developed for Kurunegala District were validated and tested, based on NDVI and EVI2 (Enhanced Vegetation Index) vegetation indices obtained through MODIS surface reflectance images of Polonnaruwa District. Both NDVI and EVI2-based models derived after about 80-days of transplanting provide more reliable estimations with compared to national statistical records.” With “The observed accuracy of the created land cover for the four seasons is 99.4 % while the kappa index is 0.9916.The estimated correlation between the reference harvested paddy area and the classified cultivated paddy area created from Landsat 8 is 0.93. Existing Linear and exponential rice yield models are tested in this research for Polonnaruwa District using calculated Normalized Difference Vegetation Index (NDVI) and Enhanced Vegetation Index 2 (EVI2). The indices which are used in the models represent the status of the paddy rice after 80 days of plantation. The results of the models proved to be reliable after comparing them to that of national statistical records” -Please correct references for mistakes and use one unified format - add more up to date references if possible	



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-elaborate more on the models in subsection 2.5 why did you select these models is it because it is created for an area of study with natural characteristics similar to your area ? Please make more efforts to improve your paper to attract more readers and to provide the authors more credits for their work!	
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