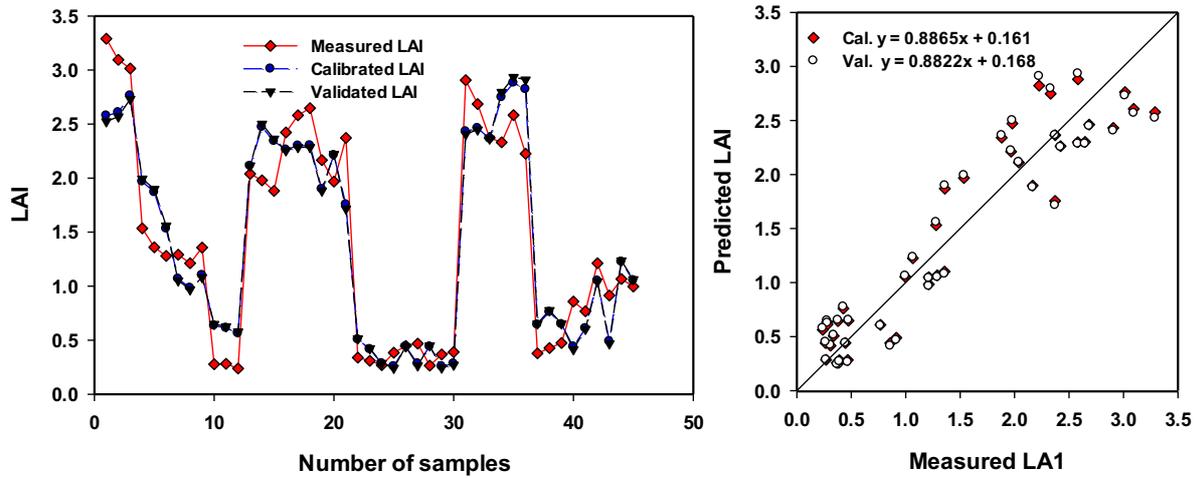
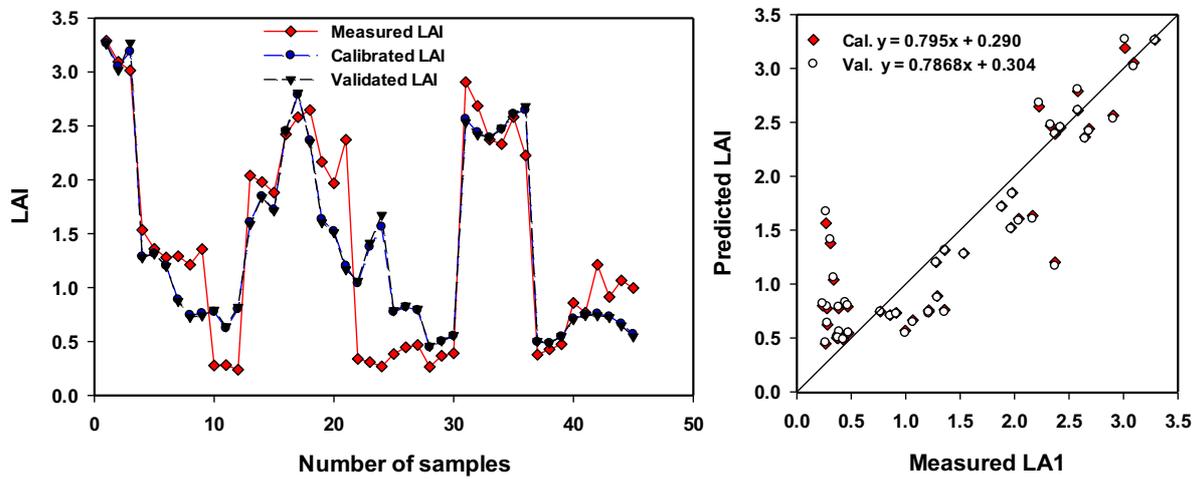


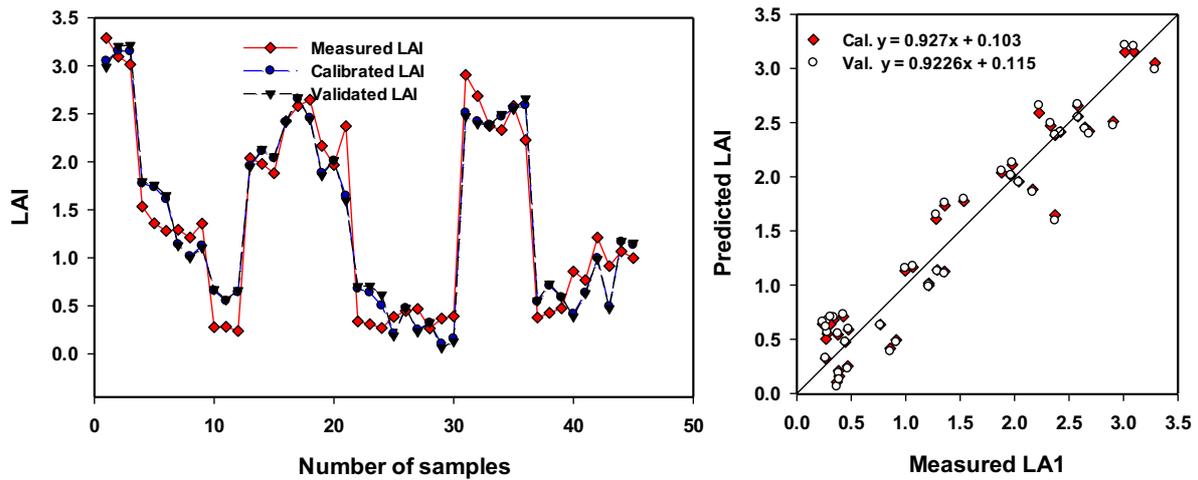
### Radiometric ground-based data



### QuickBird satellite imagery

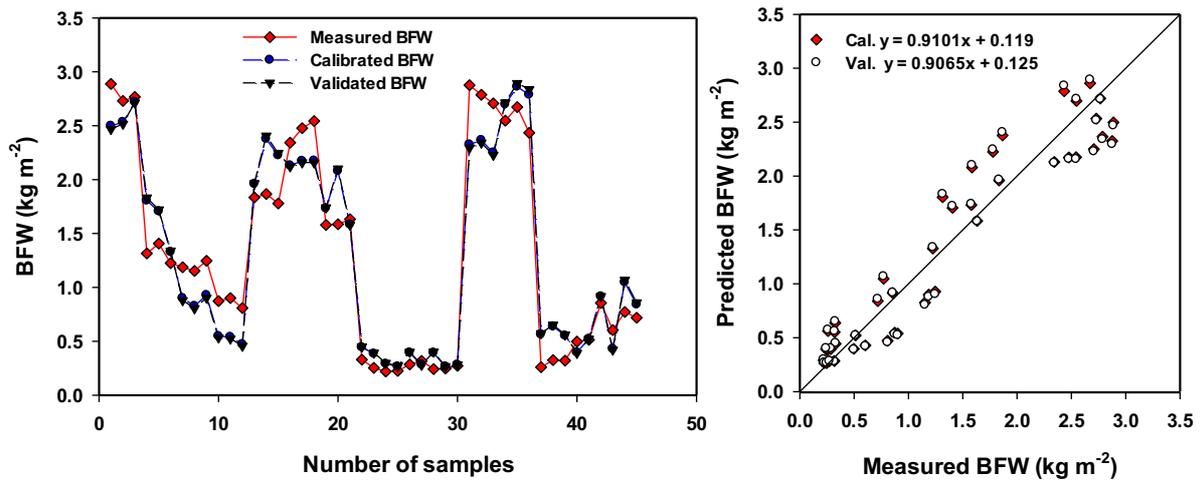


### Both methods

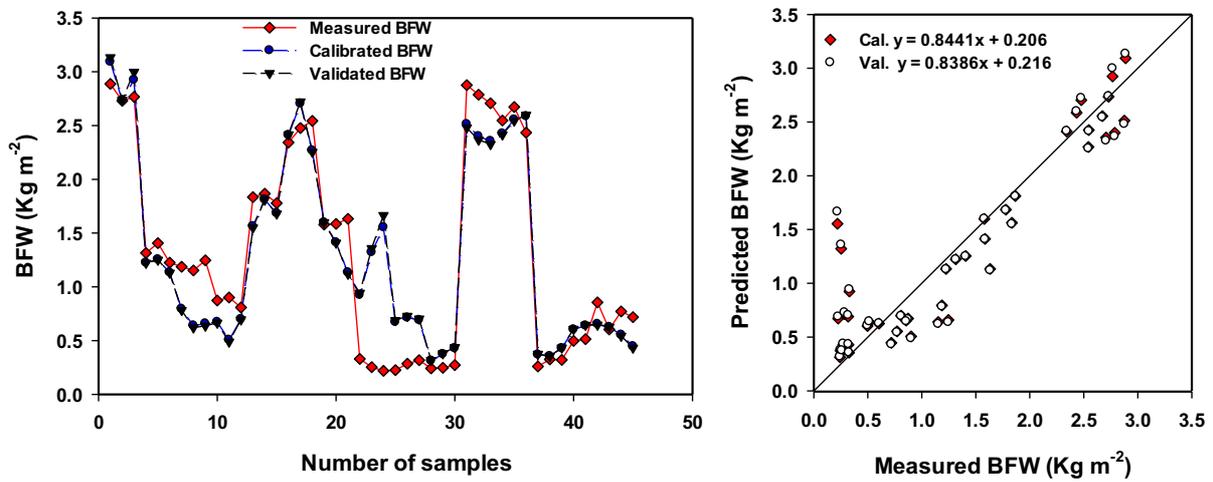


**Figure S1.** Comparison between measuring series, calibrating series and validating series for leaf area index (LAI) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extracted from QuickBird satellite imagery and (c) extracted from both methods.

(a) Radiometric ground-based data



(b) QuickBird satellite imagery



(c) Both methods

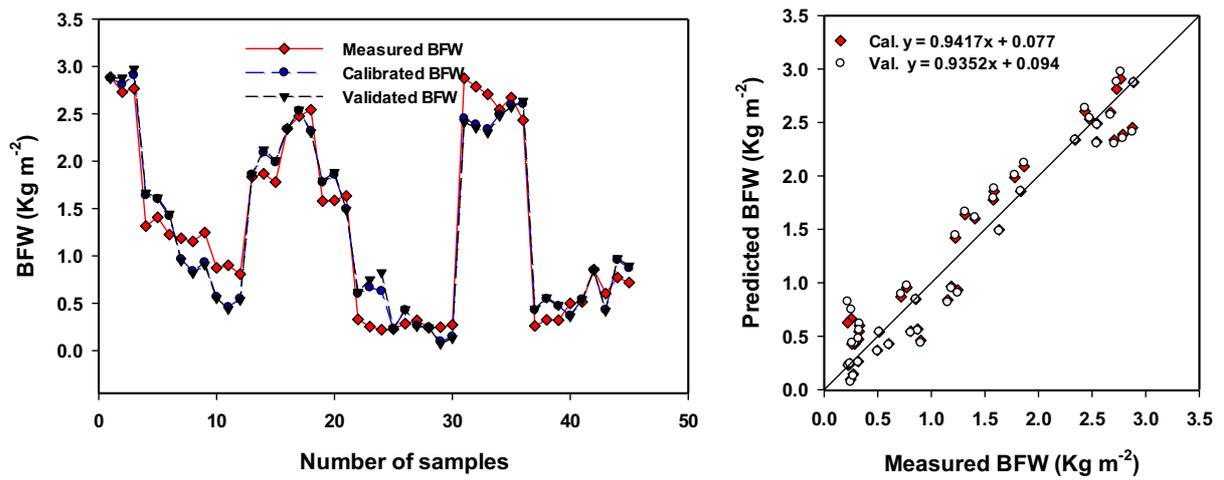
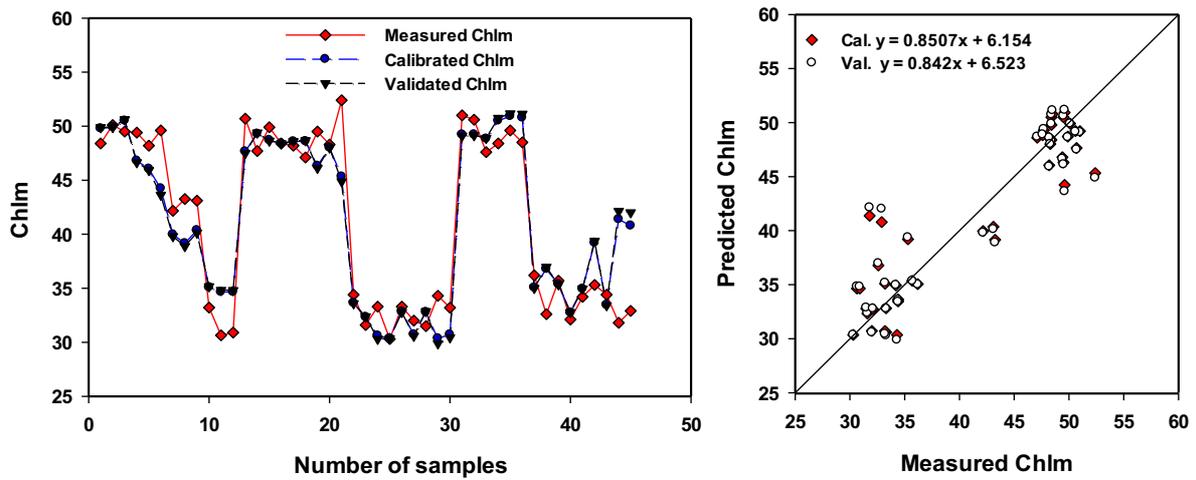
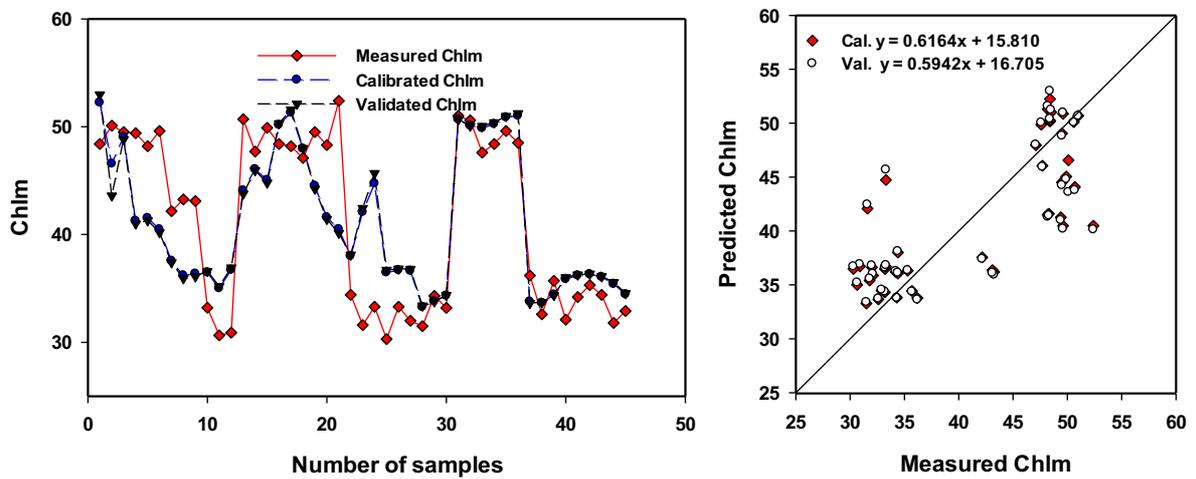


Figure S2. Comparison between measuring series, calibrating series and validating series for biomass fresh weight (BFW) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extracted from QuickBird satellite imagery and (c) extracted from both methods.

(a) Radiometric ground-based data



(b) QuickBird satellite imagery



(c) Both Methods

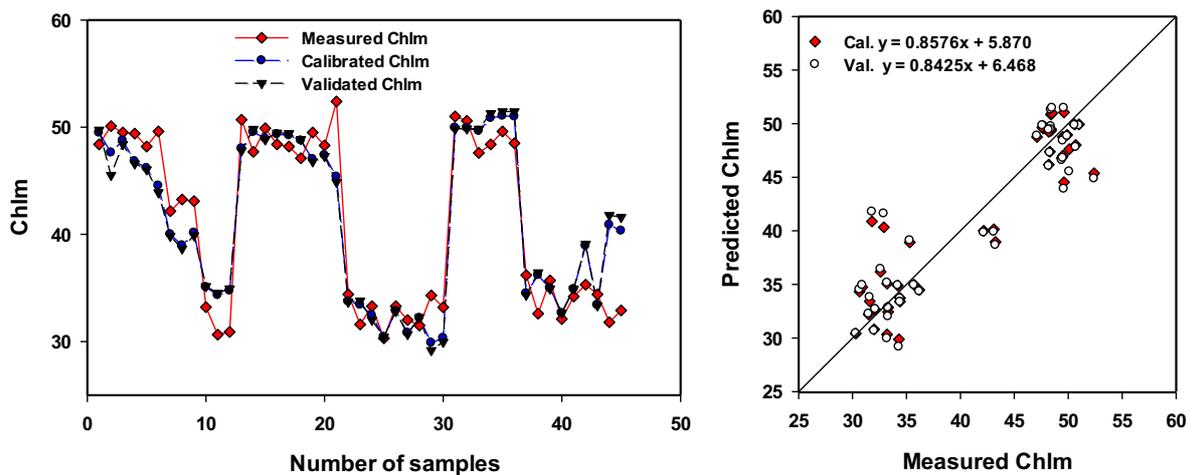


Figure S3. Comparison between measuring series, calibrating series and validating series for Chlorophyll meter (Chlm) of maize using the MLR models based on selected vegetation-SRIs extracted from (a) radiometric ground-based data, (b) extract from QuickBird satellite imagery and (c) extracted from both methods.