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## ABBREVIATIONS

AE	agricultural efficiency
ANOVA	analysis of variation
BC	broadcasting
Bin	Bang Pa-in soil series
Cc	Chachoengsao soil series
CNT1	Chai Nat 1 rice variety
CSM	Crop Simulation Model
CSM-CERES-Rice	Crop Simulation Model-Crop Environment Resource Synthesis for rice, a crop model for simulation rice development, rice growth and yield
CV	Coefficient of Variation
DP	deep placement
Dr	Don ri soil series
DS	dry season
DSSAT	Decision Support System for Agrotechnology Transfer
DWR	deepwater rice
ERS	early rainy season
FD	flowering date
FDR	flooded rice
GC	genetic coefficient
GENCALC	Genetic Coefficient Calculator
GLUE	Generalized Likelihood Uncertainty Estimation
HD	harvesting date

HI	harvest index
LCC	leaf color chart
Ma	Ma Ha Pote soil series
OM	organic matter
PAR	photosynthetically active radiation
PD	planting date
PFP	partial factor productivity
PI	panicle initiation
PSL2	Pitsanulok 2 rice variety
PTT1	Pathum Thani 1 rice variety
Rb	Ratcha Buri soil series
RMSE	root mean square error
RMSE <sub>n</sub>	normalized root mean square error
Rs	Rangsit soil series
Rs-a	Rangsit very acid soil series
S1	panicle initiation stage of rice plant development
S2	flowering stage of rice plant development
S3	milky stage of rice plant development
S4	ripening stage of rice plant development
SD	standard deviation
TAOs	Tambon Administrative Organizations
t ha <sup>-1</sup>	tonne per hectare