

Supplementary data

Greenhouse Gas Mitigation Strategies for Lowland Rice Cultivation under Common Farm Practices, and Accompanying Influencing Factors for Acceptability among Local Farmers in Myanmar

Experimental Design

TPR Plot		WDSR Plot	TPR Plot		WDSR Plot
F1		F2	F0 (Control)		F2
F0 (Control)		F1	F1		F0 (Control)
F2		F0 (Control)	F2		F1

TPR Plot		WDSR Plot
F1		F0 (Control)
F2		F2
F0 (Control)		F1

Figure S1. Field Layout of Experimental Design (Tin et al., 2022)

Greenhouse gas emissions data from field experiment

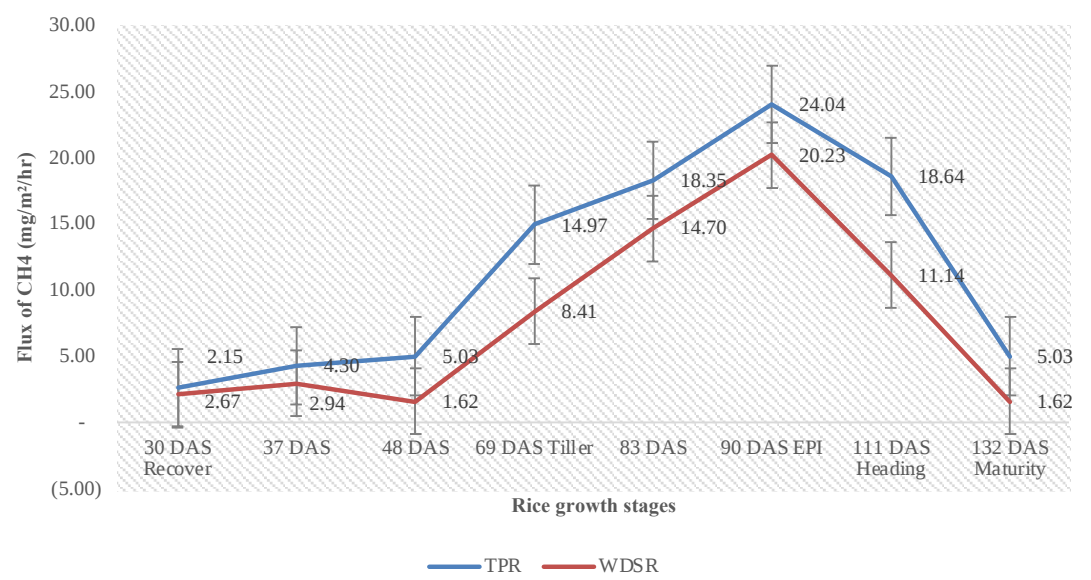


Figure S2. CH₄ fluxes in crop establishment methods (mg/m²/h) charted by rice growth stages (Tin et al., 2022)

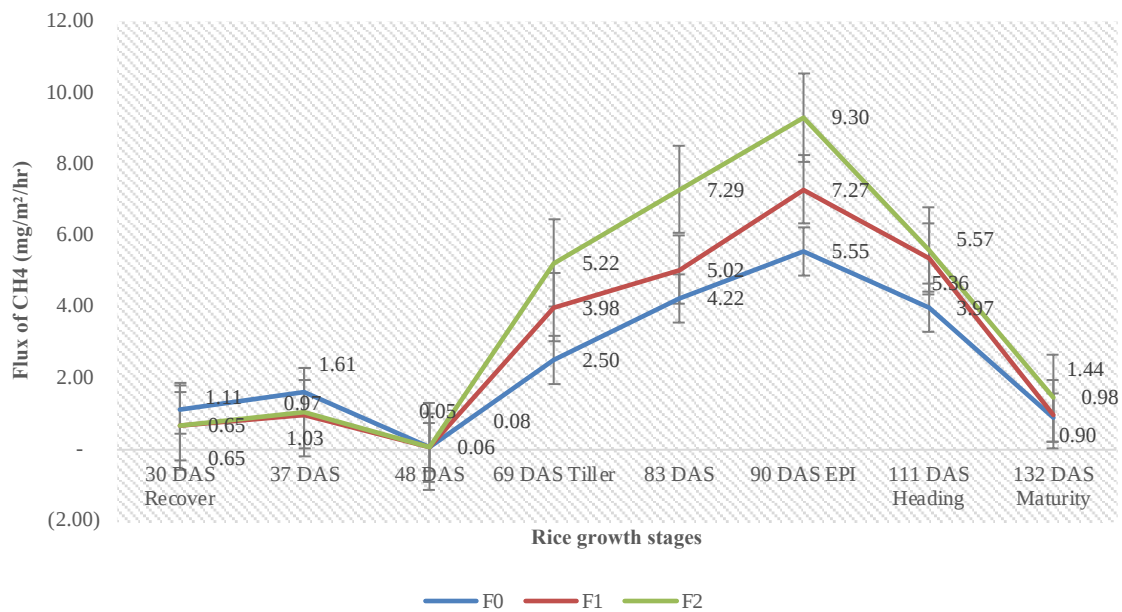


Figure S3. CH₄ fluxes in N fertilizer application methods (mg/m²/h) and rice growth stages (Tin et al., 2022)

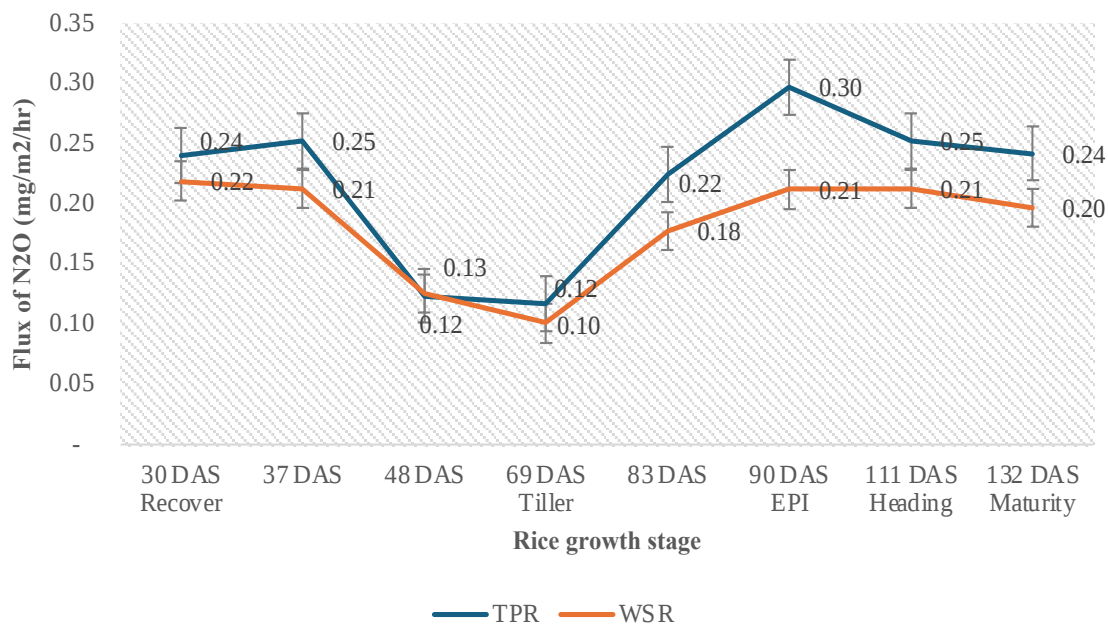


Figure S4. N₂O fluxes in crop establishment methods (mg/m²/h) viewed by rice growth stages (Tin et al., 2022)

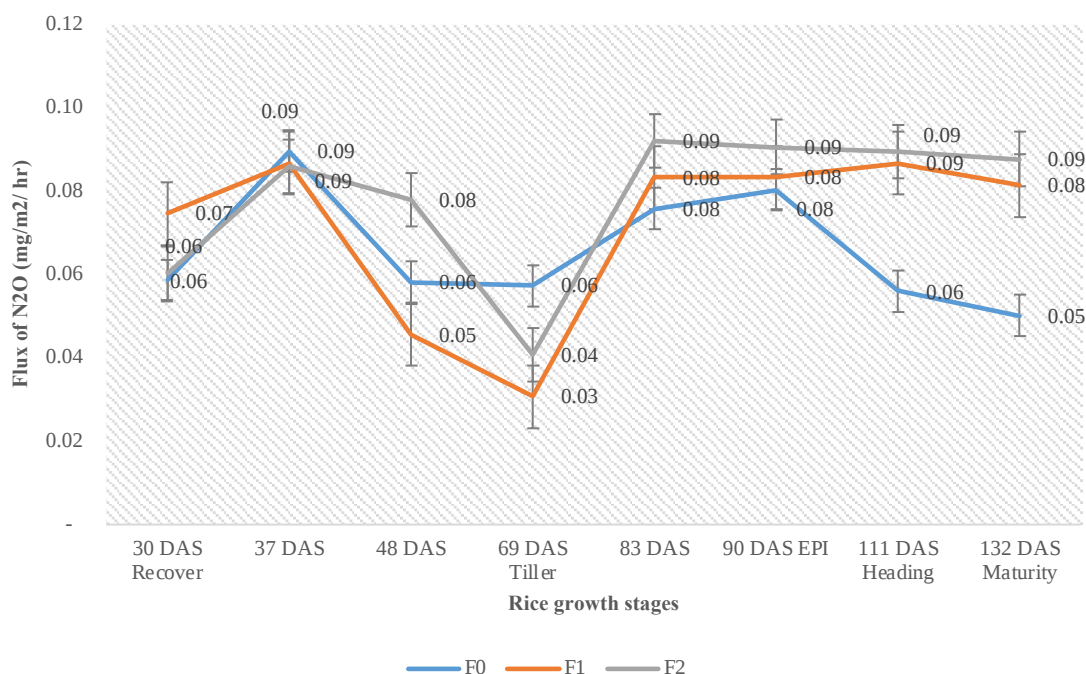


Figure S5. N₂O fluxes from N fertilizer application methods (mg/m²/h) accompanied by rice growth stages (Tin et al., 2022)

Table S6. Cost/practice of rice production by cultivation

Cultivation practice	Kula Village (n=45)					Pyiban Village (n=28)				
	Average cost of production per acre (Kyats) (×10 ³)					Average cost of production per acre (Kyats) (×10 ³)				
	Seeds	Fertilizer/ Pesticide	Labor	Machinery	Total	Seeds	Fertilizer/ Pesticide	Labor	Machinery	Total
TF1	74.00	180.00	85.00	200.00	489.00	65.30	172.00	86.00	150.00	473.30
F2	74.00	236.50	87.30	200.00	547.80	65.30	220.00	86.00	150.00	521.30
WF1	74.00	214.00	48.00	200.00	486.00	65.30	198.00	49.60	150.00	462.90
WF2	74.00	250.00	48.00	200.00	522.00	65.30	232.00	51.30	150.00	498.60

REFERENCES

Tin MT, Chidhaisong A, Pumijumnong N, Arunrat N, Yuttitham M. Methane and nitrous oxide emissions from lowland rice as affected by farmers' adopted fertilizer applications under two crop establishment methods in Myanmar. *Environment and Natural Resources Journal* 2022; 20(6):621-33.