

Table S1. Average vegetative growth stage, plant height, and leaf greenness (SPAD) at the day of flood initiation for each flood duration (FD) and N management practice (NMP). *p* values are presented within each column for FD, NMP, and FD × NMP.

FD	NMP	Growth Stage	Plant Height	Leaf Greenness
days	kg N ha ⁻¹		cm	SPAD
0		4.2	43.1	39.3
2		4.3	43.2	39.2
4		4.3	44.2	38.6
6		4.3	44.2	39.9
	0	4.3	43.4	39.3
	134	4.3	43.6	39.2
	134+67	4.3	43.9	39.3
	FD	0.8315	0.4873	0.2994
	NMP	0.9432	0.4942	0.9920
	FD × NMP	0.0605	0.1133	0.0527

Table S2. Grain moisture at harvest and stalk lodging for each flood duration (FD) and N management practice (NMP). *p* values are presented within each column for FD, NMP, and FD × NMP.

FD	NMP	Grain Moisture	Stalk Lodging
days	kg N ha ⁻¹		%
0		19.6	0.2
2		20.0	1.1
4		20.0	0.1
6		20.3	0.3
	0	20.1	0.1
	134	19.9	0.9
	134+67	19.9	0.3
	FD	0.3779	0.2038
	NMP	0.8907	0.0604
	FD × NMP	0.9598	0.0941

Table S3. Biomass of 10 ear leaves collected at the R1 growth stage. *p* values are presented within each column for FD, NMP, and FD × NMP. Different letters denote differences in means for the FD × NMP interaction.

FD	NMP	Ear Leaf Biomass
days	kg N ha⁻¹	g
0	0	40.0 ^c
	134	44.4 ^b
	134+67	49.5 ^a
2	0	31.2 ^d
	134	41.4 ^{bc}
	134+67	44.5 ^b
4	0	23.1 ^e
	134	31.6 ^d
	134+67	41.2 ^{bc}
6	0	21.3 ^e
	134	24.9 ^e
4	134+67	33.9 ^d
	FD	<0.0001
	NMP	<0.0001
	FD × NMP	0.0176