

Table S73 Agricultural management practices in the rice paddy field experiments wherein ammonia volatilizations were observed. ^a

Site	Crop	Case code	Date	Field operation, method and amount for addition of nitrogen/water, or tillage depth ^b
CS	Rice	P3, P4	2002/6/22	Rice sowing; P3: Fertilization (surface broadcasting: urea, 40.5 kg N ha ⁻¹ for the low-nitrogen treatment (LN)) P4: Fertilization (surface broadcasting: urea, 81 kg N ha ⁻¹ for the high-nitrogen treatment (HN))
				P5: Fertilization (surface broadcasting: urea, 54 kg N ha ⁻¹ for LN) P6: Fertilization (surface broadcasting: urea, 108 kg N ha ⁻¹ for HN)
		P7, P8	2002/8/20	P7: Fertilization (surface broadcasting: urea, 40.5 kg N ha ⁻¹ for LN) P8: Fertilization (surface broadcasting: urea, 81 kg N ha ⁻¹ for HN)
	Wheat		2002/6/22–9.25	Under the flooded condition, water table (WT): approximately 4 cm
			2002/9/25	Rice harvest
			2002/10/29	Wheat sowing
			2002/12/3 ^c	Fertilization (surface broadcasting: urea, 81 kg N ha ⁻¹) for LN Fertilization (surface broadcasting: urea, 135 kg N ha ⁻¹) for HN
			2003/2/21 ^c	Fertilization (surface broadcasting: urea, 54 kg N ha ⁻¹) for LN Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹) for HN
			2003/6/5	Wheat harvest
DY	Rice	P1, P9	1984/6/20	P1: Fertilization (surface broadcasting: ammonium bicarbonate, 90 kg N ha ⁻¹), tillage (approximately 5 cm) P9: Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)
			1984/6/20	Rice sowing
			1984/6/20–9.25	Under the flooded condition, WT: approximately 5 cm
	Wheat		1984/9/25	Rice harvest
			1984/10/29	Wheat sowing
			1985/3/24 ^c	Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹)
			1985/6/5	Wheat harvest

FQP	Rice	P2, P10	1986/6/21	Rice sowing; P2: Fertilization (surface broadcasting: ammonium bicarbonate, 90 kg N ha ⁻¹), tillage (approximately 5 cm) P10: Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)		
			1986/6/21–9.5	Under the flooded condition, WT: approximately 4 cm		
			1986/9/5	Rice harvest		
	Wheat		1986/10/29	Wheat sowing		
			1987/3/24 ^c	Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹)		
			1987/6/5	Wheat harvest		
	SZ	Rice		2010/5/10	Rice sowing	
2010/5/10–7.20				Under the flooded condition, WT: approximately <u>7.5</u> cm		
P11, P12				2010/5/16	P11 (Treat5–1): Fertilization (surface broadcasting: urea, 162.2 kg N ha ⁻¹) P12 (Treat5–2): Fertilization (surface broadcasting: urea, 162.2 kg N ha ⁻¹)	
		P13, P14	2010/6/22	P13 (Treat6–1): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹) P14 (Treat6–2): Fertilization (surface broadcasting: urea, 81.8 kg N ha ⁻¹)		
				2010/7/20	Rice harvest	
				2010/7/25	Rice sowing	
				2010/7/25–10.20	Under the flooded condition(water table approximately <u>7.5</u> cm)	
YTA		P15, P16	2010/7/31	P15 (Treat7–1): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹) P16 (Treat7–2): Fertilization (surface broadcasting: urea, 40.9 kg N ha ⁻¹)		
				P17, P18	2010/8/26	P17 (Treat8–1): Fertilization (surface broadcasting: urea, 81.8 kg N ha ⁻¹) P18 (Treat8–2): Fertilization (surface broadcasting: urea, 81.8 kg N ha ⁻¹)
						2010/10/20
	Rice		1992/4/10 ^c	Fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), rice sowing		
			1992/4/10–7.10	Under the flooded condition, WT: approximately 2 cm		
			1992/7/10	Rice harvest		
		Rice	P19	1992/7/29	Rice sowing, fertilization (surface broadcasting: urea, 90 kg N ha ⁻¹), tillage (approximately 5 cm)	

1992/7/29–11.10	Under the flooded condition, WT: approximately 2 cm
1992/11/10	Rice harvest

^a Given information was used, alone with other model inputs as the primary drivers, to operate CNMM-DNDC simulation of ammonia volatilizations following individual fertilizer amendment events in the rice paddy cases (P1–19). The sites are Changshu (CS), Danyang (DY), Fengqiu with rice paddy fields (FQP), Shenzhen (SZ), and Yingtan (YTA).

^b The italic and underlined numbers are the depths of the flooded water table that were arbitrarily set in this study by referring to those of the croplands adjacent to the experimental sites or model calibration since the information was not presented in the original literature.