

Table S1. Agricultural practice in study fields

RBS-1 and 2					BSR-1 and 2				
Site (Crop)	Cultivar	Year	Date	Agricultural practice	Site (Crop)	Cultivar	Year	Date	Agricultural practice
Margin	-	2016	Late Mar.	Levee plastering	Margin	-	2016	Jun. 8	Herbicide A
			Jun. 29	Mowing and herbicide A ^a				Jun. 29	Herbicide A
			Jul. 30	Herbicide A				Jul. 30	Herbicide A
			Oct. 10	Herbicide A				Sep. 2	Herbicide A
		2017	Jun. 22	Herbicide A			2017	Late Mar.	Levee plastering
			Aug. 9	Herbicide A				Jul. 19	Herbicide A
							Aug. 5	Herbicide A	
							Oct. 11	Mowing	
Field (Rice)	Koshihikari	2016	Late Apr.	Puddling with a harrow	Field (Barley)	Kashimamugi	2015	Dec. 6	Sowing and herbicide E ^c
			Apr. 27	Transplanting and herbicide B ^b			2016	May 30	Harvest
			Sep. 3	Harvest				Late Jun. to early Jul.	Tillage (Rotary, two times)
			Early Nov.	Tillage (Chisel ploughing)	Field (soybean)	Natto-Shoryu	2016	Jul. 3	Sowing and herbicide C
			Middle Nov. to late Dec.	Tillage (Rotary, two times)				Jul. 18	Herbicide D
Field (Barley)	Kashimamugi	2017	Jan. 5	Sowing			Jul. 28	Intertillage (cultivator and rake)	
			Jun. 9	Harvest			Aug. 3 and Aug. 8	Intertillage and earthing-up	
			Late Jun. to early Jul.	Tillage (Rotary, two times)			Dec. 15	Harvest	
Field (Soybean)	Natto-Shoryu	2017	Jul. 4	Sowing and herbicide C ^c			2016 to 2017	Late Dec. to late Feb.	Tillage (Rotary, two times)
			Jul. 14	Intertillage	Field (Rice)	Himagonomi	2017	Late Apr.	Puddling with a harrow
			Jul. 20	Herbicide D ^d				Apr. 30 (BSR-1) or May 5 (BSR-2)	Transplanting and herbicide B
			Jul.28	Intertillage and earthing-up				Sep. 4 (BSR-1) or Oct. 3 (BSR-2)	Harvest
			Nov. 30	Harvest				Middle Oct. to middle Nov.	Tillage (Chisel ploughing)
							Late Nov. to early Dec.	Tillage (Rotary, two times)	
					Field (Barley)		2017	Early Dec.	Sowing and herbicide E