

Supplementary File 4

Table S2

Climatic conditions in 2021

Year	May			June			July			Aug.			Sep.			Oct.		
	Big	Mid.	End	Big.	Mid.													
A.v.	Temp. (°C)	12.5	13.9	15.7	16.9	17.9	19.3	20.5	21.5	22.6	23.4	22.9	22.1	21.1	19.5	17.2	15.3	13.3
	Sunshine (hr)	61.0	61.1	66.2	58.6	45.1	42.2	38.6	38.1	42.1	46.4	41.5	40.4	37.8	38.0	41.9	42.4	45.4+
2021	Temp. (°C)	13.1	16.1	16.0	19.0	20.2	19.6	20.2	24.1	24.2	26.4	19.9	24.0	18.5	19.6	18.5	17.8	13.8
	Sunshine (hr)	78.5	54.8	66.6	74.2	44.6	42.9	5.3	68.6	41.2	53.9	14.4	35.9	28.6	44.6	54.6	39.0	17.3

Climatic conditions at Kawatabi Field Center (38°44' N, 140°45' E, at 140-m altitude) from May to October 2021. This covers the rice cultivation period in the experimental paddy field. For “Temp.,” yellow and light blue indicate a change in the average temperature of >1.0°C or <-1.0°C, respectively. For “Sunshine,” yellow and light blue highlights show a period with >120% or <80% of the average sunshine duration, respectively. Gray highlights show a temperature within 1°C of the average temperature and a sunshine duration of 80%–120% of the average. Data on the average weather over the past 30 years at Kawatabi Field Center, Miyagi Prefecture, Japan, are available on the Japan Meteorological Agency (JMA) website (JMA, <http://www.data.jma.go.jp/gmd/risk/obsdl/index.php>). The abbreviations stand as follows: “A.v.,” average, “Temp.,” temperature.