

**Supplementary Table 3.** Meteorological characteristics in August by each regions of Jeonbuk province from 2019 to 2020

Region	2019			2020			2021		
	Average of air temperature (°C)	Total rainfall (mm)	Rainy days (day)	Average of air temperature (°C)	Total rainfall (mm)	Rainy days (day)	Average of air temperature (°C)	Total rainfall (mm)	Rainy days (day)
Gunsan	-	-	-	27.0 ± 1.2	611.5	12	25.6 ± 1.7	211.5	14
Iksan	26.7 ± 2.3	129.5	11	27.6 ± 1.4	474.0	14	26.0 ± 1.9	247.5	12
Jeongeup	27.0 ± 2.4	165.5	11	28.1 ± 1.3	510.5	14	26.0 ± 1.8	390.0	17
Namwon	24.5 ± 2.6	134.5	13	26.0 ± 1.3	658.0	15	24.3 ± 1.8	288.5	15
Gimje	26.1 ± 2.4	137.0	14	27.1 ± 1.1	549.5	15	25.3 ± 1.6	406.0	17
Wanju	26.0 ± 2.7	110.8	12	26.9 ± 1.7	527.3	15	25.7 ± 1.8	374.7	16
Jinan	24.2 ± 2.5	131.5	12	25.5 ± 1.0	701.0	16	23.4 ± 1.6	401.5	21
Muju	25.3 ± 2.7	157.0	10	26.6 ± 1.4	470.5	15	24.4 ± 1.8	442.0	17
Jangsu	23.2 ± 2.5	88.5	10	24.4 ± 0.9	608.5	16	22.9 ± 1.6	327.5	18
Imsil	25.3 ± 2.6	136.0	13	26.4 ± 1.0	688.5	14	24.6 ± 1.5	362.0	17
Sunchang	24.6 ± 2.5	165.5	13	26.4 ± 0.9	673.5	16	23.8 ± 1.3	348.5	14
Gochang	-	-	-	-	-	-	-	-	-
Buan	26.5 ± 2.2	119.0	11	27.5 ± 1.1	388.0	13	25.7 ± 1.7	299.5	17

**Supplementary Table 4.** Correlation coefficients between the meteorological factors and rice panicle blast incidence in Jeonbuk province of Korea

Factor	Region	Meteorological factors		
		Average of air temperature	Total rainfall	Rainy day
Correlation coefficients	Iksan	-0.961*	0.387 <sup>ns</sup>	0.860 <sup>ns</sup>
	Jeongeup	-0.066 <sup>ns</sup>	-0.381 <sup>ns</sup>	0.204 <sup>ns</sup>
	Namwon	-0.613 <sup>ns</sup>	0.506 <sup>ns</sup>	0.805 <sup>ns</sup>
	Gimje	-0.933 <sup>ns</sup>	0.912 <sup>ns</sup>	0.873 <sup>ns</sup>
	Wanju	-0.917 <sup>ns</sup>	0.774 <sup>ns</sup>	0.982*
	Jinan	-0.968*	0.764 <sup>ns</sup>	0.997*
	Muju	-0.603 <sup>ns</sup>	0.584 <sup>ns</sup>	0.324 <sup>ns</sup>
	Jangsu	-0.712 <sup>ns</sup>	0.484 <sup>ns</sup>	0.936 <sup>ns</sup>
	Imsil	-0.896 <sup>ns</sup>	0.709 <sup>ns</sup>	1.000*
	Sunchang	-0.778 <sup>ns</sup>	0.598 <sup>ns</sup>	1.000*
	Buan	-1.000*	0.647 <sup>ns</sup>	0.954*

ns, no significant correlation; \* $P < 0.05$ .