

**Supplementary Table 2.** Rice cultivation area and incidence area of rice panicle blast by regions of Jeonbuk province from 2019 to 2021

Region	Year	Rice cultivation area (ha)	Disease incidence area by disease severity (ha) <sup>a</sup>					Proportion of disease incidence area (%)
			Low	Medium	High	Severe	Total	
Gunsan	2019	11,489.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	11,396.0	2,229.5	0.0	0.0	0.0	2,229.5	19.56
	2021	12,279.0	2,243.3	4,486.6	0.0	0.0	6,729.8	54.81
Iksan	2019	15,201.2	0.0	0.0	0.0	0.0	0.0	0.00
	2020	16,010.0	32.8	0.0	0.0	0.0	32.8	0.21
	2021	15,932.0	865.9	138.5	0.0	0.0	1,004.4	6.30
Jeongeup	2019	13,300.0	1,366.9	0.0	0.0	0.0	1,366.9	10.28
	2020	13,231.0	1,102.6	183.8	0.0	0.0	1,286.3	9.72
	2021	13,255.0	1,178.2	0.0	0.0	0.0	1,178.2	8.89
Namwon	2019	9,145.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	8,972.0	0.0	0.0	0.0	0.0	0.0	0.00
	2021	9,000.0	135.0	900.0	0.0	0.0	1,035.0	11.50
Gimje	2019	17,500.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	16,686.0	6,952.5	0.0	0.0	0.0	6,952.5	41.67
	2021	18,182.0	5,454.6	1363.7	0.0	0.0	6,818.3	37.50
Wanju	2019	3,919.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	3,624.0	0.0	0.0	0.0	0.0	0.0	0.00
	2021	3,707.0	1,355.0	473.0	357.9	191.7	2,377.6	64.14
Jinan	2019	1,700.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	1,962.0	215.6	0.0	0.0	0.0	215.6	10.99
	2021	1,814.0	290.2	72.6	0.0	0.0	362.8	20.00
Muju	2019	820.9	164.2	0.0	16.4	0.0	180.6	22.00
	2020	766.0	0.0	0.0	0.0	0.0	0.0	0.00
	2021	860.0	215.0	43.0	0.0	0.0	258.0	30.00
Jangsu	2019	2,601.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	-	-	-	-	-	-	-
	2021	2,512.0	43.7	305.8	0.0	0.0	349.5	13.91
Imsil	2019	3,826.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	-	-	-	-	-	-	-
	2021	-	2,352.6	1,450.8	823.4	0.0	4,626.8	-
Sunchang	2019	5,169.0	0.0	0.0	0.0	0.0	0.0	0.00
	2020	4,972.0	9.3	0.0	0.0	0.0	9.3	0.19
	2021	5,087.0	254.4	33.9	17.0	0.0	305.2	6.00
Gochang	2019	12,540.0	658.4	0.0	0.0	0.0	658.4	5.25
	2020	12,540.0	31.7	0.0	0.0	0.0	31.7	0.25
	2021	11,633.0	420.0	1,343.9	1,259.9	0.0	3,023.7	25.99
Buan	2019	12,959.0	39.2	0.0	0.0	0.0	39.2	0.31
	2020	11,574.0	563.9	296.8	0.0	0.0	860.6	7.44
	2021	12,661.0	2,110.2	527.5	0.0	0.0	2,637.7	20.83

<sup>a</sup>The rate of diseased panicle is divided into low ( $\leq 5\%$ ), medium (6-10%), high (11-20%), and severe ( $\geq 21\%$ ) levels.