

IPPSN 2019-20

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
ARI, Pune												
1	IPPSN2019-1	MACS 6775	54.2	100S	41.3	60S	38.0	60S	62.5	80S	46	89
2	IPPSN2019-2	MACS 6776	61.3	100S	47.7	80S	30.0	60S	62.5	100S	35	57
3	IPPSN2019-3	MACS 6777	53.4	80S	23.3	40S	20.0	40S	55.0	80S	46	78
4	IPPSN2019-4	MACS 6778	38.3	80S	17.1	60S	13.8	40S	60.0	100S	36	58
5	IPPSN2019-5	MACS 6779	5.3	20S	0.8	5MS	0.6	5MR	33.1	60S	57	99
6	IPPSN2019-6	MACS 6780	18.7	40S	14.0	40S	24.4	40S	43.8	80S	47	89
7	IPPSN2019-7	MACS 6781	10.1	40S	16.3	80S*	16.4	20S	44.3	80S	57	99
8	IPPSN2019-8	MACS 6782	4.1	10S	3.1	10S	5.2	20S	35.0	60S	46	89
9	IPPSN2019-9	MACS 6783	13.5	40S	20.7	80S	13.6	30S	31.3	60S	47	99
10	IPPSN2019-10	MACS 6784	1.7	5S	0.4	5MR	2.0	10S	28.9	60S	46	78
11	IPPSN2019-11	MACS 6785	3.8	20S	1.4	10MS	4.8	20S	30.1	60S	45	57
12	IPPSN2019-12	MACS 6786	3.1	10MS	0.1	TMR	0.2	TS	35.4	60S	46	78
13	IPPSN2019-13	MACS 6787	18.1	60S	18.1	40S	10.2	20S	75.0	100S	46	78
14	IPPSN2019-14	MACS 6788	10.2	40S	1.4	5MS	18.0	40S	33.4	80S	47	78
15	IPPSN2019-15	MACS 6789	1.3	5S	0.7	5MS	2.0	10S	28.8	80S	46	89
16	IPPSN2019-16	MACS 6790	21.7	40S	22.8	80S	24.4	60S	58.8	80S	46	78
17	IPPSN2019-17	MACS 6791	1.4	10MR	1.2	5S	4.0	20S	53.8	80S	46	78
18	IPPSN2019-18	MACS 6792	4.0	40MR	10.9	60S*	3.0	10S	33.9	60S	47	68
19	IPPSN2019-19	MACS 6793	2.2	20MR	0.8	5MS	4.4	20S	56.3	80S	36	46
20	IPPSN2019-20	MACS 6794	12.0	40S	16.1	80S*	0.6	5MR	55.0	80S	47	58
20A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	84.0	100S	77.5	100S	68	99
21	IPPSN2019-21	MACS 6795	4.6	20S	6.8	20S	0.2	TS	65.0	80S	56	79
22	IPPSN2019-22	MACS 6796	1.2	10MR	3.0	10S	0.2	TS	29.0	60S	56	78
23	IPPSN2019-23	MACS 4107	13.3	60S*	0.8	10MR	0.6	5MR	36.4	80S	46	58
24	IPPSN2019-24	MACS 4108	14.3	60S	0.7	10MR	2.0	10S	14.4	40S	45	58
25	IPPSN2019-25	MACS 4109	17.7	100S*	4.1	20S	2.0	10S	19.3	60S	35	78
26	IPPSN2019-26	MACS 4110	7.7	40S	5.4	20S	2.4	10S	15.1	40S	46	78
27	IPPSN2019-27	MACS 4111	13.7	40S	2.1	10MS	2.0	10S	6.9	20S	47	89
28	IPPSN2019-28	MACS 4112	19.4	80S	3.1	10S	4.8	20S	6.3	20S	45	78
29	IPPSN2019-29	MACS 4113	19.3	100S	1.5	10MS	8.4	20S	3.8	10MS	47	89
30	IPPSN2019-30	MACS 4114	22.3	100S	1.4	10MS	2.0	5S	6.8	20S	47	78
31	IPPSN2019-31	MACS 4115	31.8	100S	3.2	10S	2.0	10S	6.9	20S	46	68
32	IPPSN2019-32	MACS 4116	22.4	100S	3.4	20S	2.4	10S	12.4	40S	46	68
33	IPPSN2019-33	MACS 5056	6.7	40S	3.4	20S	4.0	20S	35.9	60S	45	89
34	IPPSN2019-34	MACS 5057	4.7	20S	1.4	20MR	4.0	20S	38.8	60S	46	89
35	IPPSN2019-35	MACS 5058	6.2	20S	0.1	TR	1.0	5MS	28.5	60S	46	89
CSAUA&T, Kanpur												
36	IPPSN2019-36	KA1901	10.7	40S	11.5	30MS	0.6	5MR	21.1	60S	57	78
37	IPPSN2019-37	KA1902	26.0	100S	41.7	80S	28.0	60S	53.1	80S	46	78
38	IPPSN2019-38	KA1903	20.8	100S	11.8	40S	4.0	20S	24.4	60S	46	68
39	IPPSN2019-39	KA1904	33.3	100S	27.4	80S	28.4	60S	57.6	80S	57	99
40	IPPSN2019-40	KA1905	20.4	100S	19.7	40S	21.2	40S	27.4	60S	46	78
40A	INFECTOR	INFECTOR	86.7	100S	93.3	100S	76.0	80S	80.0	100S	68	99
41	IPPSN2019-41	KA1906	31.0	100S	37.7	60S	23.6	60S	62.5	80S	35	57
42	IPPSN2019-42	KA1907	30.3	100S	43.7	100S	23.6	60S	55.0	80S	46	68
43	IPPSN2019-43	KA1908	37.4	100S	38.7	100S	18.0	40S	50.0	80S	46	78
44	IPPSN2019-44	KA1909	20.0	100S	2.7	10MS	20.0	40S	39.5	80S	46	68
45	IPPSN2019-45	KA1910	21.4	100S	24.7	80S	18.0	40S	35.8	80S	35	46
46	IPPSN2019-46	KA1911	30.7	80S	26.1	80S	16.4	40S	48.1	80S	46	78
47	IPPSN2019-47	KA1912	31.5	100S	16.3	40S	14.8	40S	45.1	80S	56	89
48	IPPSN2019-48	KA1913	21.4	60S	11.8	40S	13.6	30S	27.5	60S	24	36
49	IPPSN2019-49	KA1914	37.7	100S	26.0	60S	22.0	40S	50.6	80S	46	78
50	IPPSN2019-50	KA1915	31.0	60S	8.2	40MS	2.4	10S	17.8	40S	45	89
51	IPPSN2019-51	KA1916	36.0	100S	31.0	60S	20.0	40S	56.3	80S	57	89
52	IPPSN2019-52	KA1917	58.3	100S	54.0	80S	32.0	40S	57.5	80S	46	58
53	IPPSN2019-53	KA1918	29.3	80S	17.5	60S	17.0	40S	40.0	80S	35	68
54	IPPSN2019-54	KA1919	23.3	80S	6.4	20S	8.0	20S	38.8	80S	46	78
55	IPPSN2019-55	KA1920	22.3	80S	14.4	40S	3.8	10S	40.6	80S	46	78
56	IPPSN2019-56	KA1921	20.6	80S	18.1	80S	10.0	40S	22.1	80S	45	78
57	IPPSN2019-57	KA1922	17.9	80S	15.3	60S	19.0	40S	41.4	80S	47	78
58	IPPSN2019-58	KA1923	17.7	60S	14.7	80S*	3.2	10S	52.5	80S	47	89
59	IPPSN2019-59	KA1924	16.7	60S	16.1	60S	1.0	5S	27.0	60S	56	89
60	IPPSN2019-60	KA1925	28.3	100S	32.2	80S	16.8	40S	50.0	80S	46	58
60A	INFECTOR	INFECTOR	86.7	100S	93.3	100S	80.0	100S	75.0	100S	68	99

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
61	IPPSN2019-61	KA1926	5.1	20MS	2.7	10MS	0.2	TS	18.8	40S	25	46
62	IPPSN2019-62	KA1927	15.8	40S	1.4	10MS	2.0	10S	18.9	60S	45	78
63	IPPSN2019-63	KA1928	18.4	60S	15.4	80S*	1.4	5S	31.4	60S	45	78
64	IPPSN2019-64	KA1929	23.7	80S	6.9	40S	1.4	5MS	14.0	40S	46	89
65	IPPSN2019-65	KA1930	20.2	100S	1.0	5S	1.0	5S	19.5	60S	46	78
66	IPPSN2019-66	KA1931	21.4	100S	7.4	40S	0.6	5MR	35.0	80S	46	89
67	IPPSN2019-67	KA1932	12.8	60S*	3.4	10S	0.6	5MR	21.9	60S	46	78
68	IPPSN2019-68	KA1933	45.0	100S	32.0	80S	21.6	40S	38.8	80S	46	78
69	IPPSN2019-69	KA1934	31.5	100S	25.1	60S	22.0	40S	53.8	80S	46	89
70	IPPSN2019-70	KA1935	11.1	60S*	12.4	40S	1.0	5S	33.3	60S	46	89
71	IPPSN2019-71	KA1936	3.7	20S	18.0	80S	8.0	20S	23.8	60S	46	68
72	IPPSN2019-72	KA1937	11.6	60S*	14.0	80S*	2.0	10S	26.8	60S	46	78
73	IPPSN2019-73	KA1938	22.7	100S	13.6	80S*	0.2	TS	35.1	80S	35	46
74	IPPSN2019-74	KA1939	42.0	100S	32.1	100S	26.0	40S	42.5	80S	46	68
75	IPPSN2019-75	KA1940	27.4	100S	11.7	20S	15.0	40S	58.8	80S	46	68
76	IPPSN2019-76	KA1941	25.7	100S	16.7	40S	4.2	10S	50.1	80S	46	78
77	IPPSN2019-77	KA1942	5.8	20S	18.5	80S	2.4	10S	37.5	80S	46	78
78	IPPSN2019-78	KA1943	22.8	60S	7.2	30S	1.2	5S	12.9	40S	36	68
79	IPPSN2019-79	KA1944	29.7	60S	14.9	60S	3.2	10S	48.9	80S	56	78
80	IPPSN2019-80	KA1945	17.6	80S	22.7	40S	22.0	40S	60.0	80S	46	68
80A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	80.0	100S	78	99
CSKHPKV, Palampur												
81	IPPSN2019-81	PW 1901 (BARC)	11.7	40MS	6.2	20S	0.6	5MR	31.4	60S	56	78
82	IPPSN2019-82	PW 1902	23.4	40S	9.4	40S	0.6	5MR	17.6	60S	46	78
83	IPPSN2019-83	PW 1903	6.2	20S	7.5	40S	1.2	5S	14.1	60S	46	78
84	IPPSN2019-84	PW 1904	18.8	60S	24.9	80S	16.0	40S	22.5	80S	46	78
85	IPPSN2019-85	PW 1905	42.2	80S	19.7	100S*	0.2	TS	19.9	60S	46	58
86	IPPSN2019-86	PW 1906	29.5	100S	19.4	80S	0.2	TS	28.4	60S	46	78
87	IPPSN2019-87	PW 1907	31.6	100S	31.0	100S	16.0	40S	26.9	60S	47	78
88	IPPSN2019-88	PW 1908	16.7	40S	16.2	60S	0.4	5MR	23.1	80S	46	78
89	IPPSN2019-89	PW 1909	8.4	20MS	10.3	40S	0.0	0	22.3	60S	46	78
90	IPPSN2019-90	PW 1910	31.8	80S	76.7	100S	28.0	60S	41.9	80S	35	68
91	IPPSN2019-91	PW 1911	8.8	20S	4.4	10S	0.4	5MR	24.1	60S	46	78
92	IPPSN2019-92	PW 1912	9.4	20S	11.1	40MS	0.2	TS	18.1	60S	46	78
93	IPPSN2019-93	PW 1913	6.9	40S	23.7	80S	24.2	60S	31.9	80S	35	67
94	IPPSN2019-94	PW 1914	10.0	30MS	7.7	40MS	4.0	10S	21.9	80S	35	68
95	IPPSN2019-95	PW 1915	7.4	30MS	10.3	40S	0.2	TS	18.8	60S	46	78
96	IPPSN2019-96	BW 275	5.1	20S	14.2	80S*	4.0	20S	20.9	60S	36	78
97	IPPSN2019-97	BW 276	13.4	60S*	17.4	80S	0.2	TS	14.0	60S	35	46
98	IPPSN2019-98	BW 277	10.7	20S	20.7	60S	24.2	40S	27.3	80S	46	78
99	IPPSN2019-99	BW 278	13.6	40S	10.6	20S	0.6	5MR	14.9	60S	35	78
100	IPPSN2019-100	BW 279	17.9	80S	11.1	20S	1.0	5S	15.9	60S	34	56
100A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	76.0	80S	80.0	100S	78	99
101	IPPSN2019-101	DW 261	4.4	20S	15.1	60S	0.2	TS	20.5	60S	46	89
102	IPPSN2019-102	DW 262	15.0	40S	13.1	60S	1.0	5S	31.0	60S	46	78
103	IPPSN2019-103	DW 263	3.4	20MS	12.2	60S*	4.8	10S	23.0	80S	35	46
104	IPPSN2019-104	DW 264	14.4	40S	3.3	10S	0.8	5MS	13.9	60S	36	68
105	IPPSN2019-105	DW 265	0.8	5MS	14.1	40S	19.6	40S	16.8	80S	36	78
106	IPPSN2019-106	DW 266	26.3	60S	17.4	80S	18.0	40S	28.1	80S	46	78
107	IPPSN2019-107	DW 267	12.3	40S	11.8	40S	12.0	40S	33.8	80S	35	78
108	IPPSN2019-108	DW 268	17.5	60S	2.6	10S	1.0	5S	18.6	60S	46	78
109	IPPSN2019-109	DW 269	9.4	60MS*	15.3	80S	0.2	TS	19.1	60S	46	68
110	IPPSN2019-110	DW 270	31.8	100S	6.3	20S	6.2	10S	18.1	60S	46	89
IARI, Delhi												
111	IPPSN2019-111	IARI - 19 - 1	14.3	40S	19.4	60S	9.6	20S	27.5	60S	46	78
112	IPPSN2019-112	IARI - 19 - 2	29.7	80S	20.8	40S	4.8	10S	50.0	80S	46	78
113	IPPSN2019-113	IARI - 19 - 3	33.8	80S	9.1	40S	2.0	10S	31.4	60S	47	89
114	IPPSN2019-114	IARI - 19 - 4	2.0	10MS	10.0	60S*	1.4	5S	34.4	60S	45	78
115	IPPSN2019-115	IARI - 19 - 5	50.0	80S	24.0	80S	1.0	5MS	29.4	80S	45	78
116	IPPSN2019-116	IARI - 19 - 6	1.9	10MS	2.7	20MS	2.0	10S	29.4	60S	46	78
117	IPPSN2019-117	IARI - 19 - 7	13.0	20S	5.1	20S	2.8	10S	25.6	60S	46	89
118	IPPSN2019-118	IARI - 19 - 8	25.0	40S	4.2	10MS	4.0	10S	9.6	40S	46	78
119	IPPSN2019-119	IARI - 19 - 9	33.3	80S	4.7	20S	2.0	10S	16.7	40S	47	89
120	IPPSN2019-120	IARI - 19 - 10	18.3	40S	18.5	80S	12.2	20S	20.6	60S	56	89
120A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	80.0	100S	78	99
121	IPPSN2019-121	IARI - 19 - 11	9.0	20S	6.2	30MS	5.4	20MS	12.1	20S	46	89
122	IPPSN2019-122	IARI - 19 - 12	43.0	100S	9.8	20S	6.2	20S	16.5	60S	45	89

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			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
123	IPPSN2019-123	IARI - 19 - 13	23.0	60S	0.9	5S	1.0	5S	23.9	60S	45	78
124	IPPSN2019-124	IARI - 19 - 14	44.0	100S	4.7	10S	1.0	5S	23.5	60S	45	89
125	IPPSN2019-125	IARI - 19 - 15	15.7	40S	2.7	10MS	2.0	5S	6.5	20S	46	78
126	IPPSN2019-126	IARI - 19 - 16	24.7	60S	9.1	30S	2.2	5S	5.3	10S	45	89
127	IPPSN2019-127	IARI - 19 - 17	2.7	10MS	3.4	20MS	2.2	10S	5.5	20S	35	68
128	IPPSN2019-128	IARI - 19 - 18	44.3	100S	4.1	20MS	0.6	5MR	23.6	60S	46	89
129	IPPSN2019-129	IARI - 19 - 19	44.0	100S	20.7	60S	20.8	40S	25.0	60S	47	89
130	IPPSN2019-130	IARI - 19 - 20	55.0	100S	15.0	40S	7.0	10S	22.6	60S	46	89
131	IPPSN2019-131	IARI - 19 - 21	31.6	100S	6.5	10S	1.2	5S	2.9	10MS	46	99
132	IPPSN2019-132	IARI - 19 - 22	11.8	40S	3.2	10S	4.8	20S	2.8	10S	46	99
133	IPPSN2019-133	IARI - 19 - 23	39.0	100S	21.1	60S	18.8	40S	27.5	60S	36	89
134	IPPSN2019-134	IARI - 19 - 24	29.3	80S	8.7	20S	22.4	40S	31.3	60S	36	78
135	IPPSN2019-135	IARI - 19 - 25	29.0	80S	1.4	10MS	0.0	0	5.5	20MS	36	78
136	IPPSN2019-136	IARI - 19 - 26	20.0	40S	5.4	20MS	1.0	5MS	12.0	40S	35	78
137	IPPSN2019-137	IARI - 19 - 27	6.0	20S	2.2	10MS	0.8	5MS	36.3	80S	56	89
138	IPPSN2019-138	IARI - 19 - 28	50.7	100S	6.8	20S	0.2	TS	26.9	60S	46	89
139	IPPSN2019-139	IARI - 19 - 29	8.3	20S	2.7	10MS	2.0	10S	23.1	60S	46	78
140	IPPSN2019-140	IARI - 19 - 30	40.0	80S	12.7	40S	18.0	40S	12.6	60S*	36	78
140A	INFECTOR	INFECTOR	80.0	100S	83.3	100S	80.0	100S	77.5	100S	68	99
141	IPPSN2019-141	IARI - 19 - 31	38.7	80S	14.3	60S	16.0	40S	35.0	60S	46	89
142	IPPSN2019-142	IARI - 19 - 32	10.0	40S	8.0	20S	2.0	10S	22.3	60S	45	78
143	IPPSN2019-143	IARI - 19 - 33	15.5	40S	22.7	40S	11.2	30S	22.0	60S	36	68
144	IPPSN2019-144	IARI - 19 - 34	23.3	40S	7.5	20S	2.0	10S	25.0	60S	35	68
145	IPPSN2019-145	IARI - 19 - 35	16.0	60S	12.4	40S	2.2	10S	0.6	5MS	46	89
146	IPPSN2019-146	IARI - 19 - 36	28.7	60S	4.6	10S	2.8	5S	15.6	60S	36	89
147	IPPSN2019-147	IARI - 19 - 37	20.7	40S	23.3	60S	8.2	20S	20.1	60S	45	89
148	IPPSN2019-148	IARI - 19 - 38	46.3	100S	25.0	80S	10.0	30S	18.0	40S	46	89
149	IPPSN2019-149	IARI - 19 - 39	3.4	20MS	0.1	TR	0.2	TS	49.4	80S	46	99
150	IPPSN2019-150	IARI - 19 - 40	14.8	80S*	10.4	40S	1.4	10MR	38.6	80S	46	99
151	IPPSN2019-151	IARI - 19 - 41	2.4	10S	1.7	10S	1.2	5S	53.1	80S	46	99
152	IPPSN2019-152	IARI - 19 - 42	3.6	20S	0.8	5MS	1.2	5S	60.0	80S	46	99
153	IPPSN2019-153	IARI - 19 - 43	3.2	20MS	1.6	5S	1.8	5S	50.6	80S	46	99
154	IPPSN2019-154	IARI - 19 - 44	15.8	40S	2.4	10S	1.0	5S	10.4	20S	46	89
155	IPPSN2019-155	IARI - 19 - 45	22.4	80S	14.9	80S*	3.2	10S	13.9	40S	45	78
156	IPPSN2019-156	IARI - 19 - 46	6.2	40MR	1.8	10S	3.0	10S	33.3	80S	46	89
157	IPPSN2019-157	IARI - 19 - 47	11.5	60S*	3.5	20S	0.0	0	9.5	20S	35	78
158	IPPSN2019-158	IARI - 19 - 48	12.9	60S*	1.5	5S	3.0	10S	22.4	60S	46	89
159	IPPSN2019-159	IARI - 19 - 49	2.1	5MS	24.0	80S	18.0	40S	49.0	80S	46	89
160	IPPSN2019-160	IARI - 19 - 50	5.5	30MR	4.1	20S	4.0	20S	43.8	80S	46	89
160A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	76.0	80S	75.0	100S	68	99
161	IPPSN2019-161	IARI - 19 - 51	5.4	20S	11.5	60S*	3.0	10S	38.8	60S	46	78
162	IPPSN2019-162	IARI - 19 - 52	30.0	80S	1.8	10S	5.0	20S	36.1	80S	46	89
163	IPPSN2019-163	IARI - 19 - 53	12.2	60S	13.8	60S	2.4	10S	42.5	80S	46	89
164	IPPSN2019-164	IARI - 19 - 54	0.8	20R	1.4	5MS	0.6	5MR	27.0	60S	46	89
165	IPPSN2019-165	IARI - 19 - 55	10.8	40S	3.1	10S	0.0	0	28.3	60S	46	89
166	IPPSN2019-166	IARI - 19 - 56	7.5	40MS	8.2	40MS	6.2	20S	3.6	20S	45	89
167	IPPSN2019-167	IARI - 19 - 57	44.7	80S	15.3	40S	3.2	10S	30.4	60S	36	78
168	IPPSN2019-168	IARI - 19 - 58	26.3	80S	11.7	30S	9.0	20S	24.8	40S	47	78
169	IPPSN2019-169	IARI - 19 - 59	51.4	100S	6.7	20S	3.2	10S	24.1	60S	36	78
170	IPPSN2019-170	IARI - 19 - 60	24.1	60S	17.7	80S	12.0	30S	19.9	60S	46	89
171	IPPSN2019-171	IARI - 19 - 61	51.4	100S	18.7	60S	2.0	10S	25.6	60S	46	78
172	IPPSN2019-172	IARI - 19 - 62	15.1	40S	13.4	60S	2.8	5S	19.6	60S	35	46
173	IPPSN2019-173	IARI - 19 - 63	12.2	40MS	6.0	40MS	0.2	TS	12.3	40S	35	46
174	IPPSN2019-174	IARI - 19 - 64	23.5	60S	10.0	30S	1.2	5S	4.0	20S	35	48
175	IPPSN2019-175	IARI - 19 - 65	28.0	60S	2.1	10MS	1.4	5S	8.1	40S	45	68
176	IPPSN2019-176	IARI - 19 - 66	14.7	40S	8.1	40S	0.2	TS	13.0	40S	35	89
177	IPPSN2019-177	IARI - 19 - 67	27.7	80S	6.0	20MS	7.2	20MS	18.3	60S	45	78
178	IPPSN2019-178	IARI - 19 - 68	21.0	60S	16.4	60S	1.0	5S	37.6	80S	46	68
179	IPPSN2019-179	IARI - 19 - 69	17.3	60S	27.0	80S	12.8	40S	11.8	20S	35	48
180	IPPSN2019-180	IARI - 19 - 70	2.0	20MR	2.4	10MS	0.4	5MR	48.8	80S	57	78
180A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	77.5	100S	78	99
181	IPPSN2019-181	IARI - 19 - 71	8.0	20S	0.9	5S	6.4	20S	37.6	60S	46	99
182	IPPSN2019-182	IARI - 19 - 72	0.8	5MS	0.0	TR	0.6	5MR	38.8	80S	45	78
183	IPPSN2019-183	IARI - 19 - 73	2.3	5S	0.1	TR	1.0	5S	57.5	80S	46	89
184	IPPSN2019-184	IARI - 19 - 74	3.4	30MR	1.7	10S	2.2	10S	50.0	80S	46	99
185	IPPSN2019-185	IARI - 19 - 75	1.8	20MR	1.7	10MS	2.2	10S	57.5	80S	46	99
186	IPPSN2019-186	IARI - 19 - 76	4.2	20S	14.8	80S*	4.4	20S	48.1	80S	46	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
187	IPPSN2019-187	IARI - 19 - 77	20.0	60S	1.4	5MS	0.2	TS	13.0	40S	35	46
188	IPPSN2019-188	IARI - 19 - 78	52.3	100S	13.0	40S	4.0	10S	18.8	60S	35	46
189	IPPSN2019-189	IARI - 19 - 79	50.2	100S	18.7	80S	4.6	20S	24.9	60S	36	68
190	IPPSN2019-190	IARI - 19 - 80	20.8	80S	1.1	5MS	9.0	40S	13.6	40S	35	46
191	IPPSN2019-191	IARI - 19 - 81	12.7	40S	4.7	20S	10.0	40S	38.1	80S	35	58
192	IPPSN2019-192	IARI - 19 - 82	2.0	10S	0.4	5MR	0.0	0	4.2	20MS	46	68
193	IPPSN2019-193	IARI - 19 - 83	1.1	5S	0.6	5MR	0.4	5MR	11.4	40S	46	68
194	IPPSN2019-194	IARI - 19 - 84	4.1	20S	0.8	5MR	0.2	TS	2.9	20MS	47	58
195	IPPSN2019-195	IARI - 19 - 85	10.8	60S*	0.1	TR	0.2	TS	12.9	40S	56	78
196	IPPSN2019-196	IARI - 19 - 86	4.9	20MS	0.1	TR	0.6	5MR	12.4	40S	45	78
197	IPPSN2019-197	IARI - 19 - 87	1.7	5MS	2.0	10MS	5.0	20S	5.7	20S	46	68
198	IPPSN2019-198	IARI - 19 - 88	3.6	20S	1.4	5MS	5.4	20S	3.6	10MS	46	48
199	IPPSN2019-199	IARI - 19 - 89	8.1	20S	0.4	5MR	8.4	40S	3.5	20MS	45	68
200	IPPSN2019-200	IARI - 19 - 90	8.7	40S	0.1	TMR	8.2	40S	4.3	20S	46	78
200A	INFECTOR	INFECTOR	80.0	100S	80.0	100S	80.0	100S	70.0	80S	78	99
201	IPPSN2019-201	IARI - 19 - 91	12.5	40MS	2.1	10MS	2.0	10S	8.0	20S	46	78
202	IPPSN2019-202	IARI - 19 - 92	9.7	20S	19.0	80S	5.4	20MS	28.3	60S	35	46
203	IPPSN2019-203	IARI - 19 - 93	28.5	60S	14.4	60S	8.2	40S	10.4	40S	35	46
204	IPPSN2019-204	IARI - 19 - 94	6.6	10S	2.6	10MS	0.2	TS	45.0	60S	46	78
205	IPPSN2019-205	IARI - 19 - 95	16.8	40MS	13.5	40S	14.0	20S	26.0	60S	46	79
206	IPPSN2019-206	IARI - 19 - 96	6.4	20S	18.1	100S*	8.6	40S	32.1	80S	35	89
207	IPPSN2019-207	IARI - 19 - 97	13.6	40S	0.8	10MR	3.2	10S	11.0	40S	46	89
208	IPPSN2019-208	IARI - 19 - 98	24.7	40S	5.4	20S	3.2	10S	14.6	40S	45	78
209	IPPSN2019-209	IARI - 19 - 99	34.0	60S	8.0	30S	3.0	10S	22.8	60S	36	58
210	IPPSN2019-210	IARI - 19 - 100	37.3	80S	12.4	60S	13.0	60S*	23.8	60S	46	78
211	IPPSN2019-211	IARI - 19 - 101	6.9	20MS	1.1	10MR	4.2	20S	12.1	40S	46	78
212	IPPSN2019-212	IARI - 19 - 102	11.5	40MS	11.7	40S	4.2	10S	23.1	60S	35	46
213	IPPSN2019-213	IARI - 19 - 103	20.7	100S	12.7	40S	13.0	40S	18.8	60S	35	46
214	IPPSN2019-214	IARI - 19 - 104	27.0	80S	13.4	40S	11.0	40S	31.4	60S	35	46
215	IPPSN2019-215	IARI - 19 - 105	22.0	40S	4.8	20S	9.0	20S	18.5	40S	45	58
216	IPPSN2019-216	IARI - 19 - 106	15.0	40S	4.7	20MS	2.2	10S	11.9	40S	46	68
217	IPPSN2019-217	IARI - 19 - 107	11.7	40S	14.0	40S	16.2	40S	11.4	40S	35	46
218	IPPSN2019-218	IARI - 19 - 108	16.8	40S	7.4	20S	1.0	10MR	26.4	40S	35	58
219	IPPSN2019-219	IARI - 19 - 109	2.8	20MS	3.0	10S	4.0	20S	51.3	80S	35	68
220	IPPSN2019-220	IARI - 19 - 110	20.1	80MS	28.0	80S	28.4	40S	55.0	80S	45	68
220A	INFECTOR	INFECTOR	86.7	100S	93.3	100S	80.0	100S	77.5	100S	68	99
221	IPPSN2019-221	IARI - 19 - 111	4.7	30MR	3.8	10MS	3.8	10S	56.3	80S	46	58
222	IPPSN2019-222	IARI - 19 - 112	1.4	10MR	0.1	TR	2.4	10S	45.0	80S	56	89
223	IPPSN2019-223	IARI - 19 - 113	1.8	10S	0.8	5MS	0.6	5MR	3.8	20S	46	89
224	IPPSN2019-224	IARI - 19 - 114	3.6	20S	0.7	10MR	4.8	10S	6.6	20S	46	78
225	IPPSN2019-225	IARI - 19 - 115	3.5	20S	1.7	10S	0.2	TS	11.2	40S	46	78
226	IPPSN2019-226	IARI - 19 - 116	5.7	20MS	0.1	TR	1.6	5S	6.3	20MS	46	78
227	IPPSN2019-227	IARI - 19 - 117	0.0	TR	0.0	TR	4.0	20S	42.6	80S	46	78
228	IPPSN2019-228	IARI - 19 - 118	2.4	10MR	1.0	5S	3.2	10S	18.3	60S	35	48
229	IPPSN2019-229	IARI - 19 - 119	44.2	80S	21.0	40S	3.2	10S	33.3	60S	46	68
230	IPPSN2019-230	IARI - 19 - 120	25.4	60S	4.2	20S	2.2	10S	16.4	60S	35	46
231	IPPSN2019-231	IARI - 19 - 121	7.2	20S	6.7	20MS	0.0	0	25.0	40S	35	46
232	IPPSN2019-232	IARI - 19 - 122	8.2	20S	36.0	100S	26.4	60S	6.4	20S	35	68
233	IPPSN2019-233	IARI - 19 - 123	11.0	40MS	6.7	10S	7.6	20S	4.9	20MS	35	45
234	IPPSN2019-234	IARI - 19 - 124	2.4	10S	5.1	20S	0.2	TS	28.1	60S	35	78
235	IPPSN2019-235	IARI - 19 - 125	0.3	5R	4.1	20S	0.2	TS	25.0	60S	45	78
236	IPPSN2019-236	IARI - 19 - 126	3.1	10MS	1.5	5S	2.2	10S	25.8	60S	35	78
237	IPPSN2019-237	IARI - 19 - 127	28.7	60S	26.7	80S	17.6	30S	32.5	60S	46	58
238	IPPSN2019-238	IARI - 19 - 128	0.1	TR	4.1	20S	1.0	5S	8.6	20S	46	78
239	IPPSN2019-239	IARI - 19 - 129	0.8	10MR	3.7	10S	1.0	5S	10.0	40S	46	78
240	IPPSN2019-240	IARI - 19 - 130	0.9	10MR	3.4	20S	1.0	5S	13.9	40S	35	57
240A	INFECTOR	INFECTOR	80.0	100S	90.0	100S	76.0	80S	80.0	100S	78	99
241	IPPSN2019-241	IARI - 19 - 131	34.0	80S	13.7	60S*	10.0	40S	10.9	40S	46	68
242	IPPSN2019-242	IARI - 19 - 132	1.6	10MS	14.0	60S*	6.4	20S	30.1	60S	35	46
243	IPPSN2019-243	IARI - 19 - 133	38.7	80S	11.6	60S*	8.2	20S	18.4	60S	35	46
244	IPPSN2019-244	IARI - 19 - 134	0.1	TR	0.1	TR	0.6	5MR	38.9	80S	34	45
245	IPPSN2019-245	IARI - 19 - 135	19.5	40S	13.5	40S	11.0	40S	5.5	20S	35	46
246	IPPSN2019-246	IARI - 19 - 136	25.3	80S	4.4	15MS	1.0	5MS	7.9	20S	36	58
247	IPPSN2019-247	IARI - 19 - 137	22.0	60S	7.7	20S	4.8	20S	9.9	20S	46	89
248	IPPSN2019-248	IARI - 19 - 138	11.9	30S	29.3	100S	6.4	20S	11.3	20S	25	48
249	IPPSN2019-249	IARI - 19 - 139	40.7	80S	31.3	80S	18.8	40S	31.1	60S	45	89
250	IPPSN2019-250	IARI - 19 - 140	4.4	10S	3.6	10S	5.0	20S	18.8	40S	36	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
251	IPPSN2019-251	IARI - 19 - 141	4.7	10S	0.9	5S	0.2	TS	20.1	60S	46	89
252	IPPSN2019-252	IARI - 19 - 142	30.4	80S	1.8	10S	2.2	10S	28.1	60S	35	48
253	IPPSN2019-253	IARI - 19 - 143	7.2	20S	22.4	80S	4.6	10S	16.9	40S	35	78
254	IPPSN2019-254	IARI - 19 - 144	8.4	20S	3.0	20MS	0.2	TS	20.9	60S	45	78
255	IPPSN2019-255	IARI - 19 - 145	15.4	40S	5.4	20MS	5.6	20MS	13.4	60S	46	89
256	IPPSN2019-256	IARI - 19 - 146	12.8	30MS	4.1	20MS	6.4	20S	13.0	40S	45	78
257	IPPSN2019-257	IARI - 19 - 147	0.9	5S	0.0	TR	2.0	10S	3.0	10S	25	36
258	IPPSN2019-258	IARI - 19 - 148	3.4	20MS	4.2	20MS	2.0	5S	16.8	60S	35	68
259	IPPSN2019-259	IARI - 19 - 149	4.0	10S	7.4	20S	1.4	5S	8.9	20S	35	57
260	IPPSN2019-260	IARI - 19 - 150	3.4	10MS	1.7	10S	0.2	TS	25.3	60S	35	46
260A	INFECTOR	INFECTOR	80.0	100S	80.0	100S	80.0	100S	72.5	100S	68	99
261	IPPSN2019-261	IARI - 19 - 151	0.7	10MR	1.8	10S	1.0	5MS	22.6	60S	45	56
262	IPPSN2019-262	IARI - 19 - 152	28.0	80S	7.2	20S	5.0	10S	18.9	40S	46	57
263	IPPSN2019-263	IARI - 19 - 153	28.0	80S	18.7	40S	3.0	10S	12.9	20S	46	78
264	IPPSN2019-264	IARI - 19 - 154	6.7	10S	8.0	40S	5.2	20S	21.9	60S	35	78
265	IPPSN2019-265	IARI - 19 - 155	3.7	10S	4.7	20S	0.2	TS	18.9	40S	35	78
266	IPPSN2019-266	IARI - 19 - 156	0.2	5R	0.9	5S	4.2	20S	13.8	40S	34	45
267	IPPSN2019-267	IARI - 19 - 157	0.2	5R	1.7	10S	4.2	20S	11.0	40S	36	48
268	IPPSN2019-268	IARI - 19 - 158	0.3	5R	0.0	TR	8.4	40S	3.1	20MR	36	48
269	IPPSN2019-269	IARI - 19 - 159	1.7	10S	0.0	TR	4.0	20S	10.5	80S*	23	45
270	IPPSN2019-270	IARI - 19 - 160	14.4	40S	20.7	80S	6.0	10S	41.4	80S	46	68
271	IPPSN2019-271	IARI - 19 - 161	1.8	10MS	10.4	40S	5.2	10S	29.5	60S	24	35
272	IPPSN2019-272	IARI - 19 - 162	6.2	20MS	5.4	20S	12.0	40S	42.5	60S	36	48
273	IPPSN2019-273	IARI - 19 - 163	1.7	10MS	1.4	10MS	4.4	20S	11.0	40S	46	78
274	IPPSN2019-274	IARI - 19 - 164	0.3	5R	0.7	10MR	9.0	40S	4.9	10S	46	68
275	IPPSN2019-275	IARI - 19 - 165	18.7	40S	7.0	20S	4.6	20S	33.8	60S	35	46
276	IPPSN2019-276	IARI - 19 - 166	37.3	80S	10.6	40S	17.4	60S	22.3	60S	36	47
277	IPPSN2019-277	IARI - 19 - 167	13.7	40MS	2.9	15MS	4.2	20S	33.8	60S	35	47
278	IPPSN2019-278	IARI - 19 - 168	12.7	40S	1.4	10MS	8.2	40S	23.8	40S	35	68
279	IPPSN2019-279	IARI - 19 - 169	11.0	40S	4.9	20MS	6.0	10S	15.5	40S	35	56
280	IPPSN2019-280	IARI - 19 - 170	25.4	80S	5.7	30S	0.2	TS	20.1	40S	35	56
280A	INFECTOR	INFECTOR	76.7	100S	86.7	100S	80.0	100S	77.5	100S	68	99
ARS Nipad												
281	IPPSN2019-281	NIAW 3922	0.8	10MR	1.4	10MS	5.0	20S	41.9	80S	35	58
282	IPPSN2019-282	NIAW 3928	2.3	5S	1.0	5S	9.2	40S	56.3	80S	46	68
283	IPPSN2019-283	NIAW 3946	1.5	10MS	0.7	10MR	5.2	20S	45.0	80S	35	48
284	IPPSN2019-284	NIAW 3975	5.0	20S	7.2	20S	8.0	40S	31.9	60S	35	46
285	IPPSN2019-285	NIAW 3980	3.5	10MS	2.7	10MS	2.2	10S	31.9	80S	35	45
286	IPPSN2019-286	NIAW 4028	0.2	5R	0.0	TR	2.4	10S	37.3	60S	35	47
287	IPPSN2019-287	NIAW 3921	0.0	TR	1.7	10MS	4.4	20S	26.1	60S	46	68
288	IPPSN2019-288	NIAW 3924	0.7	5MS	0.7	5MS	4.2	20S	38.9	80S	36	58
289	IPPSN2019-289	NIAW 3950	1.1	5MS	1.7	10S	0.2	TS	33.3	60S	46	68
290	IPPSN2019-290	NIAW 3970	13.8	40S	7.5	20MS	0.0	0	23.5	60S	45	68
291	IPPSN2019-291	NIAW 3972	1.0	10MR	0.1	TR	0.6	5MR	39.5	80S	35	57
292	IPPSN2019-292	NIAW 3923	1.8	10S	0.1	TR	0.0	0	53.1	80S	46	78
293	IPPSN2019-293	NIAW 3927	3.4	10S	1.5	5S	4.0	20S	55.0	80S	45	78
294	IPPSN2019-294	NIAW 3931	7.3	30MR	45.3	100S	36.0	60S	47.5	80S	46	89
295	IPPSN2019-295	NIAW 3971	40.0	100S	1.7	5S	6.2	20S	22.8	60S	46	89
296	IPPSN2019-296	NIAW 3975	16.7	60S	3.3	10S	9.2	40S	29.4	60S	45	89
297	IPPSN2019-297	NIDW 1391	30.7	100S	0.8	5MS	3.4	10S	16.9	40S	45	78
298	IPPSN2019-298	NIDW 1396	35.7	100S	0.8	5MS	1.0	5MS	5.8	20S	45	78
299	IPPSN2019-299	NIDW 1417	32.0	100S	1.8	10S	2.2	10S	1.1	5S	35	46
300	IPPSN2019-300	NIDW 1422	38.3	100S	0.8	5MS	13.0	60S*	9.0	40S	46	68
300A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	77.5	80S	78	99
301	IPPSN2019-301	NIDW 1440	13.1	60MS	0.2	TMR	6.0	20S	8.0	20S	46	68
302	IPPSN2019-302	NIDW 1399	10.3	40MS	0.8	5MS	5.8	20S	5.1	20MS	35	56
303	IPPSN2019-303	NIDW 1405	8.2	20S	1.4	10MS	9.2	40S	42.5	80S	34	57
304	IPPSN2019-304	NIDW 1410	29.0	80S	2.1	10MS	5.0	20S	13.5	40S	46	68
305	IPPSN2019-305	NIDW 1412	18.5	60S	5.4	20S	4.6	20S	10.8	40S	45	68
PDKV, Akola												
306	IPPSN2019-306	AKAW 4674	11.1	40S	13.3	40S	28.0	40S	55.0	80S	35	68
307	IPPSN2019-307	AKAW 5095	20.0	60S	6.9	20MS	10.0	20S	52.5	80S	34	45
308	IPPSN2019-308	AKAW 5096	22.2	60S	30.0	100S	34.0	40S	22.3	60S	46	68
309	IPPSN2019-309	AKAW 5100	4.7	40MR	16.0	80S	1.0	5S	42.3	80S	36	48
310	IPPSN2019-310	AKAW 5114	13.3	40S	9.7	20S	19.4	40S	55.0	80S	35	45
311	IPPSN2019-311	AKAW 5310	4.7	10S	4.0	10S	1.2	5S	52.5	80S	46	99
312	IPPSN2019-312	AKAW 5347	8.7	40MR	16.0	80S*	0.2	TS	31.9	60S	35	46

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
313	IPPSN2019-313	AKDW 5348	5.5	40MR	5.7	20MS	1.8	5MS	10.4	40S	46	78
314	IPPSN2019-314	AKAW 5349	4.7	40MR	11.4	60S*	6.4	20S	50.1	80S	45	78
315	IPPSN2019-315	AKAW 5350	4.4	20MS	7.0	20S	9.4	20S	36.9	60S	46	78
316	IPPSN2019-316	AKAW 5351	11.7	40S	6.7	30S	8.2	40S	35.8	60S	35	89
317	IPPSN2019-317	AKAW 5352	5.4	10MS	30.3	100S	15.2	20S	45.0	60S	35	46
318	IPPSN2019-318	WSM 109-4	2.2	5S	7.4	20MS	13.0	40S	50.0	80S	35	46
319	IPPSN2019-319	WSM 138	3.5	10MS	1.7	10S	5.2	20S	32.5	60S	46	68
320	IPPSN2019-320	WSM 253	14.0	30S	7.7	20S	4.0	10S	40.0	60S	46	78
320A	INFECTOR	INFECTOR	76.7	100S	86.7	100S	80.0	100S	72.5	100S	78	99
NDUAT, Ayodhya												
321	IPPSN2019-321	NW 8003	6.7	20MS	16.7	80S	0.4	5MR	22.5	40S	25	56
322	IPPSN2019-322	NW 8004	23.3	60S	2.9	10MS	2.0	10S	17.5	40S	46	78
323	IPPSN2019-323	NW 8005	10.7	20MS	5.0	15MS	3.2	10S	20.9	40S	45	78
324	IPPSN2019-324	NW 8006	30.1	60S	24.0	60S	15.6	40S	40.0	60S	46	89
325	IPPSN2019-325	NW 8007	19.4	40S	11.2	40S	13.4	30S	40.0	60S	35	78
326	IPPSN2019-326	NW 8008	27.7	60S	39.3	80S	26.0	40S	41.3	80S	35	46
327	IPPSN2019-327	NW 8009	13.3	40S	8.8	40MS	9.0	20S	27.0	60S	35	46
328	IPPSN2019-328	NW 8010	38.1	60S	2.5	10S	2.0	10S	9.9	40S	46	78
329	IPPSN2019-329	NW 8011	33.0	80S	29.0	100S	20.0	40S	36.3	60S	35	46
330	IPPSN2019-330	NW 8012	16.8	60S	4.0	20MS	4.6	10S	16.2	60S	34	45
331	IPPSN2019-331	NW 8013	27.4	60S	1.5	10MS	1.4	5S	17.6	40S	35	45
332	IPPSN2019-332	NW 8014	20.0	40S	24.0	60S	9.0	40S	50.0	80S	35	46
333	IPPSN2019-333	NW 8015	34.3	60S	28.3	60S	17.2	40S	51.9	80S	46	56
334	IPPSN2019-334	NW 8016	44.3	80S	32.7	100S	4.0	10S	47.5	60S	46	78
335	IPPSN2019-335	NW 8017	34.7	60S	4.5	10MS	6.4	20S	18.4	60S	46	78
336	IPPSN2019-336	NW 8018	20.3	60MS	21.7	80S	9.2	20MS	48.8	80S	46	56
337	IPPSN2019-337	NW 8019	11.4	60S*	10.9	60S*	1.0	5S	12.1	40S	35	46
338	IPPSN2019-338	NW 8020	1.9	10MS	1.6	5S	1.4	5S	9.3	40S	35	46
339	IPPSN2019-339	NW 8021	11.4	60S*	0.8	5MS	0.2	TS	21.6	60S	35	56
340	IPPSN2019-340	NW 8022	23.4	60MS	2.1	10MS	1.2	5S	12.8	40S	35	57
340A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	76.0	80S	77.5	100S	78	99
341	IPPSN2019-341	NW 8023	13.7	40S	7.7	20S	0.2	TS	30.6	40S	46	68
342	IPPSN2019-342	NW 8024	24.7	60S	3.9	20S	4.0	10S	32.6	60S	35	36
343	IPPSN2019-343	NW 8025	0.8	5MS	0.1	TR	0.2	TS	3.9	10S	35	46
344	IPPSN2019-344	NW 8026	5.0	20MS	2.7	20MS	5.2	20S	26.3	40S	35	78
345	IPPSN2019-345	NW 8027	11.1	40MS	2.4	10MS	1.8	5S	35.0	60S	46	78
PAU, Ludhiana												
346	IPPSN2019-346	BWL 6886	12.8	40MS	4.0	20MS	2.2	10S	3.6	10S	45	78
347	IPPSN2019-347	BWL 6985	18.7	40S	18.3	100S*	2.2	10S	18.4	60S	46	89
348	IPPSN2019-348	BWL 6986	2.7	10MS	2.2	10MS	0.2	TS	2.4	10S	35	36
349	IPPSN2019-349	BWL 6987	1.4	10MS	3.0	10S	3.8	10S	3.8	10S	36	49
350	IPPSN2019-350	BWL 6988	36.0	80S	11.2	40MS	1.4	5S	6.9	20S	46	89
351	IPPSN2019-351	BWL 6997	6.7	20MS	3.7	10S	1.2	5S	12.3	40S	46	68
352	IPPSN2019-352	BWL 6998	6.8	20S	9.4	40S	1.0	5MS	11.5	40S	35	68
353	IPPSN2019-353	BWL 7115	2.7	10S	4.1	20S	5.0	20S	15.5	40S	35	46
354	IPPSN2019-354	BWL 7132	2.3	10MS	0.1	TMR	5.4	20S	9.8	40S	35	46
355	IPPSN2019-355	BWL 7402	2.1	10MR	0.9	TR	3.2	10S	4.6	10S	35	46
356	IPPSN2019-356	BWL 7411	3.8	10MS	1.4	10MS	2.2	10S	10.3	40S	35	46
357	IPPSN2019-357	BWL 7416	46.0	80S	21.5	100S	8.2	40S	2.8	10S	45	78
358	IPPSN2019-358	BWL 7423	37.3	60S	5.0	20S	4.0	20S	7.6	20MS	35	46
359	IPPSN2019-359	BWL 7443	45.0	100S	8.1	40S	1.8	5S	13.6	40S	35	47
360	IPPSN2019-360	BWL 7449	45.0	80S	7.4	40S	8.2	40S	12.3	60S	45	78
360A	INFECTOR	INFECTOR	86.7	100S	80.0	100S	80.0	100S	75.0	100S	68	99
361	IPPSN2019-361	BWL 7464	41.7	80S	19.1	60S	3.2	10MS	7.0	40S	36	56
362	IPPSN2019-362	BWL 7466	13.5	40S	2.7	10MS	1.0	5S	11.9	40S	36	57
363	IPPSN2019-363	BWL 7468	42.0	80S	2.2	10S	0.0	TR	3.5	10MS	46	68
364	IPPSN2019-364	BWL 7478	7.0	20MS	3.4	10S	0.6	5MR	0.6	5MS	47	78
365	IPPSN2019-365	BWL 7495	5.3	10S	0.1	TMR	6.0	10S	3.9	20S	57	78
366	IPPSN2019-366	BWL 7499	3.7	10MS	0.7	5MS	0.2	TS	8.6	60S*	46	68
367	IPPSN2019-367	BWL 7500	2.2	5S	0.0	TR	2.6	10S	2.5	10S	47	78
368	IPPSN2019-368	BWL 7501	1.0	5MS	0.7	10MR	9.4	40S	3.0	10S	45	78
369	IPPSN2019-369	BWL 7519	4.7	20MS	19.4	80S	4.6	20S	1.3	5S	35	78
370	IPPSN2019-370	BWL 7566	9.4	20S	0.7	10MR	0.0	0	1.1	10MS	35	78
371	IPPSN2019-371	BWL 7567	7.7	20S	2.1	10MS	1.0	5S	8.5	60S*	35	68
372	IPPSN2019-372	BWL 7568	18.4	40S	1.4	10MS	2.0	5S	1.9	10S	35	68
373	IPPSN2019-373	BWL 7629	28.7	80S	3.4	20S	5.2	20S	3.0	20S	46	78
374	IPPSN2019-374	BWL 7630	30.0	60S	1.6	10MS	4.2	20S	8.9	20S	36	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
375	IPPSN2019-375	BWL 7631	29.5	60S	1.8	10MS	5.0	20S	11.5	40S	46	89
376	IPPSN2019-376	BWL 7632	9.5	20S	2.4	10S	0.6	5MR	3.0	10S	46	78
377	IPPSN2019-377	BWL 7633	8.3	40MR	4.4	20MS	6.2	20S	13.5	40S	46	78
378	IPPSN2019-378	BWL 7634	10.3	20MS	1.6	5S	1.0	5S	18.4	40S	46	78
379	IPPSN2019-379	BWL 7635	50.7	80S	9.4	20S	8.2	40S	10.1	40S	46	68
380	IPPSN2019-380	BWL 7636	50.7	80S	17.1	60S	0.2	TS	8.8	40S	47	68
380A	INFECTOR	INFECTOR	86.7	100S	83.3	100S	76.0	80S	77.5	100S	78	99
381	IPPSN2019-381	BWL 7637	36.4	60S	0.0	TR	4.0	20S	5.6	40S	46	68
382	IPPSN2019-382	BWL 7638	18.0	60S	1.4	10MS	4.0	20S	6.5	40S	46	78
383	IPPSN2019-383	BWL 7639	28.4	60S	2.7	20MS	17.4	80S*	1.9	10S	46	68
384	IPPSN2019-384	BWL 7640	56.3	80S	4.5	20MS	0.4	5MR	22.4	60S	46	89
385	IPPSN2019-385	BWL 7641	20.0	80S	18.4	60S	13.2	40S	26.8	60S	35	78
386	IPPSN2019-386	BWL 7642	20.2	80S	14.1	60S*	3.8	10S	25.8	60S	36	78
387	IPPSN2019-387	BWL 7643	2.2	10MS	0.7	5MS	1.2	5S	7.8	40S	35	56
388	IPPSN2019-388	BWL 7644	5.5	10S	5.4	10S	8.4	40S	15.8	40S	46	78
389	IPPSN2019-389	BWL 7645	50.0	80S	24.4	80S	5.8	20S	9.9	40S	35	68
390	IPPSN2019-390	BWL 7834	17.8	40S	2.7	15MS	8.0	40S	9.0	40S	46	78
391	IPPSN2019-391	BWL 7838	17.8	40S	3.5	10MS	9.2	40S	2.8	10S	35	57
392	IPPSN2019-392	BWL 7854	4.2	20MS	3.9	10S	0.0	0	0.8	5S	36	68
393	IPPSN2019-393	BWL 7885	5.4	20MS	3.7	10S	8.2	40S	2.6	10S	46	78
394	IPPSN2019-394	BWL 7887	13.7	60MS	4.4	10S	4.2	20S	0.6	5S	46	78
395	IPPSN2019-395	BWL 7889	49.5	100S	8.4	20S	2.2	10S	1.1	5MS	36	67
396	IPPSN2019-396	BWL 7906	16.8	40S	13.8	40S	3.2	10S	3.4	10S	35	46
397	IPPSN2019-397	BWL 7936	8.9	30MS	30.7	100S	2.0	10S	3.3	10MS	46	78
398	IPPSN2019-398	BWL 7937	11.5	20S	13.7	30S	9.0	40S	5.6	10S	35	46
399	IPPSN2019-399	BWL 7976	16.8	40S	3.0	10S	2.2	10S	0.8	5MS	36	78
400	IPPSN2019-400	BWL 7981	22.5	60S	3.1	10S	5.0	10S	10.3	40S	46	68
400A	INFECTOR	INFECTOR	83.3	100S	83.3	100S	80.0	100S	72.5	100S	68	99
401	IPPSN2019-401	BWL 8005	34.2	80S	1.4	10MS	0.2	TS	15.3	60S	46	78
402	IPPSN2019-402	BWL 8010	28.4	60S	1.4	10MS	0.0	0	30.0	60S	35	68
403	IPPSN2019-403	BWL 8151	12.1	40S	2.7	10MS	1.0	5MS	14.5	60S	35	78
404	IPPSN2019-404	BWL 8155	9.4	40MS	3.5	10MS	1.0	5MS	2.4	10S	36	78
405	IPPSN2019-405	BWL 8157	31.4	80S	9.7	20MS	0.2	TS	6.5	20S	47	89
406	IPPSN2019-406	BWL 8166	7.4	40MS	1.4	10MS	16.0	80S*	0.2	TS	35	68
407	IPPSN2019-407	BWL 8267	16.1	40S	4.7	20MS	8.0	40S	5.7	20S	46	78
408	IPPSN2019-408	BWL 8314	4.7	20MS	1.4	10MS	4.6	20S	4.4	10S	36	78
409	IPPSN2019-409	BWL 8354	19.0	40S	3.9	10S	4.0	20S	15.4	60S	46	78
410	IPPSN2019-410	BWL 8357	10.7	40MS	6.9	20S	15.2	60S	7.0	20MS	35	78
411	IPPSN2019-411	BWL 8447	17.0	40S	5.0	20MS	6.2	20S	5.3	20S	46	78
412	IPPSN2019-412	BWL 8458	14.7	40S	5.4	20MS	0.2	TS	5.4	20S	45	67
413	IPPSN2019-413	BWL 8459	14.7	40MS	1.4	10MS	0.6	5MR	8.9	40S	36	68
414	IPPSN2019-414	BWL 8515	10.5	20S	3.0	10S	2.2	5S	12.6	40S	46	89
415	IPPSN2019-415	BWL 8567	24.1	60S	2.1	10MS	0.2	TS	4.8	20S	46	89
416	IPPSN2019-416	BWL 8599	10.7	20S	12.2	60S*	3.2	10S	15.5	60S	46	78
417	IPPSN2019-417	BWL 8621	7.5	40MR	9.1	20S	4.0	10S	13.5	40S	46	89
418	IPPSN2019-418	BWL 8801	3.5	20MR	5.9	15MS	0.2	TS	2.2	10S	46	78
419	IPPSN2019-419	BWL 8802	6.7	20MS	11.7	40S	0.2	TS	12.0	40S	46	78
420	IPPSN2019-420	BWL 8803	24.2	60S	4.1	20MS	4.2	10S	22.8	60S	45	78
420A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	80.0	100S	72.5	80S	78	99
421	IPPSN2019-421	BWL 8804	17.5	40S	2.7	20MS	1.0	5S	10.4	20S	46	78
422	IPPSN2019-422	BWL 8805	15.3	40MS	2.7	10MS	1.4	5S	6.2	20S	36	68
423	IPPSN2019-423	BWL 8806	2.5	10MS	0.7	10MR	0.0	0	27.6	60S	46	78
424	IPPSN2019-424	BWL 8807	9.0	20MS	2.0	10MS	5.0	20S	7.8	40S	36	68
425	IPPSN2019-425	BWL 8808	6.3	15MS	8.4	40S	1.0	5S	11.1	40S	46	68
426	IPPSN2019-426	BWL 8809	24.7	40S	3.1	10S	0.2	TS	10.6	40S	45	78
427	IPPSN2019-427	BWL 8810	26.0	60S	5.8	10S	12.0	20S	11.6	40S	46	78
428	IPPSN2019-428	BWL 8811	21.4	40S	5.0	20S	2.2	10S	11.0	40S	47	78
429	IPPSN2019-429	BWL 8812	24.0	60S	4.8	20MS	6.0	20S	6.0	20MS	46	78
430	IPPSN2019-430	BWL 8813	8.4	20S	2.1	15MS	0.0	0	12.4	20S	36	68
431	IPPSN2019-431	BWL 8814	3.7	20MS	2.9	15MS	7.0	20S	18.1	60S	35	68
432	IPPSN2019-432	BWL 8815	10.7	20MS	17.4	100S*	2.2	10S	11.6	40S	46	78
433	IPPSN2019-433	BWL 8816	4.1	20S	2.5	10S	0.2	TS	4.0	10S	35	68
434	IPPSN2019-434	BWL 8817	2.7	10MS	1.7	10MS	0.0	0	2.9	10S	35	78
435	IPPSN2019-435	BWL 8818	10.5	20S	7.0	20MS	9.0	20S	9.8	40S	35	78
436	IPPSN2019-436	BWL 8819	8.0	20MS	0.9	5S	0.6	5MR	13.0	40S	35	89
437	IPPSN2019-437	BWL 8820	4.4	20MS	10.9	60S*	1.0	5S	1.3	5MS	45	78
438	IPPSN2019-438	BWL 8821	4.2	10MS	1.8	10S	3.2	10S	7.4	20S	45	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
439	IPPSN2019-439	BWL 8822	9.5	60MS*	19.1	100S	4.2	10S	9.5	40S	46	78
440	IPPSN2019-440	BWL 8823	20.1	60S	11.4	60S*	24.0	80S	9.4	20S	57	89
440A	INFECTOR	INFECTOR	76.7	100S	90.0	100S	64.2	100S	72.5	80S	68	99
441	IPPSN2019-441	BWL 8824	6.9	20MS	11.7	40S	4.8	20S	18.8	40S	45	78
442	IPPSN2019-442	BWL 8825	13.4	40S	1.4	10MS	2.2	10S	4.8	10S	46	89
443	IPPSN2019-443	BWL 8826	9.4	20S	2.2	10MS	1.2	5S	4.6	10S	45	78
444	IPPSN2019-444	BWL 8827	5.5	20MS	7.4	40S	10.0	40S	8.4	20S	45	68
445	IPPSN2019-445	BWL 8828	1.9	10MR	0.4	5MR	5.2	20S	11.0	60S	46	89
446	IPPSN2019-446	BWL 8829	17.0	40S	2.4	10MS	5.2	20S	12.9	60S	46	89
447	IPPSN2019-447	BWL 8830	10.0	30S	0.1	TMR	8.2	40S	8.6	20S	45	78
448	IPPSN2019-448	BWL 8831	20.7	40S	7.4	20S	2.8	10MS	8.4	40S	46	78
449	IPPSN2019-449	BWL 8832	22.3	40S	6.2	20S	6.2	30S	13.6	40S	46	78
450	IPPSN2019-450	BWL 8833	4.2	10MS	2.7	15MS	8.2	40S	6.2	20S	36	78
451	IPPSN2019-451	BWL 8834	6.1	20MS	3.4	20MS	5.8	20S	6.0	20S	45	89
452	IPPSN2019-452	BWL 8835	3.6	10MS	2.0	10MS	1.0	5MS	5.0	10S	45	89
453	IPPSN2019-453	BWL 8836	1.6	10MS	0.1	TR	0.2	TS	5.1	10S	45	89
454	IPPSN2019-454	BWL 8837	23.5	80S	5.6	20S	4.2	20S	4.8	10S	56	89
455	IPPSN2019-455	BWL 8838	7.5	40MS	3.9	10S	2.8	10MS	4.9	20MS	56	89
456	IPPSN2019-456	BWL 8839	4.8	20MS	0.9	5S	8.2	40S	7.4	20S	46	89
457	IPPSN2019-457	BWL 8840	15.5	40S	1.9	5S	8.6	40S	9.4	20S	46	78
458	IPPSN2019-458	BWL 8841	32.7	60S	3.0	10MS	4.6	20S	4.9	10S	46	78
459	IPPSN2019-459	BWL 8842	1.5	10MS	0.1	TMR	2.2	10S	6.8	20S	45	78
460	IPPSN2019-460	BWL 8843	1.8	5MS	0.7	10MR	2.2	10S	1.6	10S	46	68
460A	INFECTOR	INFECTOR	80.0	100S	86.7	100S	80.0	100S	72.5	100S	68	99
461	IPPSN2019-461	BWL 8844	7.7	20S	1.5	10MS	4.4	10S	9.8	20S	35	36
462	IPPSN2019-462	BWL 8845	4.1	10MS	2.3	10MS	1.2	5S	12.3	40S	35	45
463	IPPSN2019-463	BWL 8846	2.2	5MS	0.1	TR	4.8	20S	3.8	10S	35	46
464	IPPSN2019-464	BWL 8847	3.3	20MR	0.1	TR	4.0	20S	4.5	20S	35	36
465	IPPSN2019-465	BWL 8848	1.7	10MR	0.1	TR	1.0	5MS	3.6	10MS	24	46
466	IPPSN2019-466	BWL 8849	3.9	20MS	0.1	TMR	12.8	40S	5.8	20S	35	45
467	IPPSN2019-467	BWL 8850	23.8	40S	2.1	10MS	4.2	20S	0.7	5S	35	68
468	IPPSN2019-468	BWL 8851	17.3	20S	4.7	20S	0.0	0	0.6	5MS	36	68
469	IPPSN2019-469	BWL 8852	2.7	5MS	12.4	40S	3.6	10S	0.8	5S	36	46
470	IPPSN2019-470	BWL 8853	7.4	20S	0.8	5MS	10.8	40S	1.9	10S	46	78
471	IPPSN2019-471	BWL 8854	27.7	60S	1.4	10MS	8.0	40S	3.9	20S	36	46
472	IPPSN2019-472	BWL 8855	5.7	10S	0.1	TR	9.8	40S	2.3	10S	36	78
473	IPPSN2019-473	BWL 8859	22.2	60MS	1.7	10S	5.0	20S	7.6	20S	46	78
474	IPPSN2019-474	BWL 8860	5.8	40MR	0.8	5MS	6.0	20S	4.1	20MS	45	68
475	IPPSN2019-475	BWL 8861	17.0	40S	22.0	80S	13.2	20S	10.6	40S	45	78
476	IPPSN2019-476	BWL 8862	10.2	30S	1.7	10S	4.2	20S	10.0	40S	46	78
477	IPPSN2019-477	BWL 8863	6.8	20MS	3.2	10S	2.0	10S	1.3	5S	45	78
478	IPPSN2019-478	BWL 8864	4.8	20MS	1.1	5S	1.0	5S	5.6	40S	46	78
479	IPPSN2019-479	BWL 8865	11.7	20S	1.4	10MS	8.2	40S	13.3	40S	46	78
480	IPPSN2019-480	BWL 8866	22.8	40S	2.3	10MS	4.0	20S	10.0	20S	56	89
480A	INFECTOR	INFECTOR	80.0	100S	86.7	100S	80.0	100S	75.0	100S	68	99
481	IPPSN2019-481	BWL 8867	32.1	60S	6.0	20S	0.2	TS	5.7	10S	46	89
482	IPPSN2019-482	BWL 8868	15.7	40S	3.5	20MS	2.0	5S	6.8	20MS	46	89
483	IPPSN2019-483	BWL 8869	2.9	10MS	3.1	10S	3.0	10S	4.6	10S	35	56
484	IPPSN2019-484	BWL 8870	24.0	60MS	3.9	10S	2.2	10S	6.0	20S	45	79
485	IPPSN2019-485	BWL 8871	15.7	40S	1.5	10MS	2.0	5S	3.6	10S	57	89
486	IPPSN2019-486	BWL 8872	12.2	20S	0.1	TR	0.0	0	5.6	10S	45	89
487	IPPSN2019-487	DW 569	14.3	40MS	4.1	20MS	3.6	10S	4.4	10S	45	78
488	IPPSN2019-488	DW 570	11.7	40MS	0.1	TR	1.2	5S	2.5	10S	46	78
489	IPPSN2019-489	DW 571	13.0	40MS	0.9	10MR	1.0	5S	1.9	5S	46	78
490	IPPSN2019-490	DW 572	12.5	40MS	1.5	10MS	2.2	10S	2.2	5S	35	78
491	IPPSN2019-491	DW 573	25.7	40S	3.6	20MS	1.0	5S	2.8	5S	35	78
492	IPPSN2019-492	WG 1272	11.7	40S	5.7	10S	7.0	20S	3.4	10MS	35	78
493	IPPSN2019-493	WG 1720	14.0	40MS	15.4	80S*	5.0	20S	7.3	20S	35	78
494	IPPSN2019-494	WG 1728	25.5	60S	16.3	40S	12.2	60S*	7.9	20S	46	78
495	IPPSN2019-495	WG 1730	30.7	60S	16.7	60S	0.2	TS	7.4	20S	46	89
496	IPPSN2019-496	WG 1760	5.4	20MS	0.8	5MS	0.0	0	8.4	40S	45	89
497	IPPSN2019-497	WG 1771	3.5	10MS	2.4	10S	5.0	20S	1.5	5S	45	89
498	IPPSN2019-498	WG 1772	33.0	60S	18.4	60S	2.2	10MS	1.6	5S	45	89
499	IPPSN2019-499	WG 1786	6.8	20MS	15.5	80S	8.0	20S	10.3	40S	35	78
500	IPPSN2019-500	WG 1796	22.3	60S	1.1	5MS	8.2	40S	10.6	40S	46	89
500A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	76.0	80S	72.5	80S	68	99
501	IPPSN2019-501	WG 1808	15.7	40S	6.4	20S	3.6	10S	4.8	10S	45	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
502	IPPSN2019-502	WG 1825	32.3	60S	2.3	10MS	4.8	20S	2.5	10S	45	78
503	IPPSN2019-503	WG 1826	12.5	40S	2.9	10MS	1.2	5S	9.1	20S	35	78
504	IPPSN2019-504	WG 1833	17.8	40S	2.1	10MS	0.0	0	13.4	40S	35	78
505	IPPSN2019-505	WG 1875	28.0	60S	7.0	40MS	0.2	TS	2.9	10S	45	89
506	IPPSN2019-506	WG 1892	6.5	40MR	13.8	60S	3.8	10S	10.3	20S	35	89
507	IPPSN2019-507	WG 1899	5.7	20MS	1.4	10MS	1.0	5MS	8.8	20S	35	89
508	IPPSN2019-508	WG 1916	6.7	20MS	1.4	10MS	0.8	5MS	13.4	40S	35	47
509	IPPSN2019-509	WG 1921	21.0	60S	4.1	20S	2.0	10S	7.3	20S	45	78
510	IPPSN2019-510	WG 1929	7.0	20S	1.6	5S	2.8	10S	15.4	40S	35	57
511	IPPSN2019-511	WG 1996	8.4	20S	2.9	10MS	1.0	5MS	16.4	40S	46	89
512	IPPSN2019-512	WG 1999	25.2	60S	2.0	10MS	0.2	TS	18.9	40S	45	78
513	IPPSN2019-513	WG 2004	8.3	20S	3.5	10MS	2.0	10S	9.1	20S	46	89
514	IPPSN2019-514	DWG 2044	28.3	60S	6.1	20S	0.2	TS	3.6	10S	46	68
515	IPPSN2019-515	DWG 2052	16.9	60S	2.6	10S	2.0	10S	10.5	60S*	56	99
JNKVV, Powarkheda												
516	IPPSN2019-516	MP 20 - 01	4.8	30MR	18.2	60S	14.4	50S	48.8	80S	46	99
517	IPPSN2019-517	MP 20 - 02	6.1	20S	2.6	10S	0.2	TS	29.8	60S	46	89
518	IPPSN2019-518	MP 20 - 03	13.0	20S	3.1	10MS	0.0	0	25.8	40S	46	78
519	IPPSN2019-519	MP 20 - 04	29.0	100S	9.4	20S	2.0	10S	35.1	60S	46	78
520	IPPSN2019-520	MPO 20 - 05	21.0	100S	4.8	20S	6.0	30S	18.4	40S	45	89
520A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	75.0	100S	78	99
521	IPPSN2019-521	MP 20 - 06	17.2	40S	7.0	20S	2.0	10S	6.9	10S	45	89
522	IPPSN2019-522	MP 20 - 07	17.5	40S	19.1	60S	7.2	20MS	12.1	40S	57	89
523	IPPSN2019-523	MPO 20 - 08	11.8	60S*	2.8	20MS	5.6	20S	0.1	TMS	46	89
524	IPPSN2019-524	MP 20 - 09	18.0	40S	13.3	20S	7.0	20S	18.7	60S	35	46
525	IPPSN2019-525	MP 20 - 10	6.4	20S	11.0	40S	3.6	10S	29.1	60S	46	89
526	IPPSN2019-526	MPO 20 - 11	5.9	20S	0.9	5S	0.0	0	5.5	20S	46	89
527	IPPSN2019-527	MP 20 - 12	17.4	80S	20.0	60S	8.2	20S	35.5	80S	47	89
528	IPPSN2019-528	MPO 20 - 13	15.1	80S*	5.6	20S	2.4	10S	10.6	60S	46	89
529	IPPSN2019-529	MP 20 - 14	3.9	10MS	2.4	5S	5.0	20S	8.1	40S	35	78
530	IPPSN2019-530	MP 20 - 15	4.4	20MS	16.0	80S*	12.4	30S	41.5	60S	45	78
531	IPPSN2019-531	MPO 20 - 16	4.0	10S	1.9	5S	0.2	TS	8.9	60S*	46	89
532	IPPSN2019-532	MPO 20 - 17	7.3	10S	0.4	5MR	0.0	0	2.5	10MS	46	78
533	IPPSN2019-533	MPO 20 - 18	4.0	10MS	8.4	40S	0.4	5MR	3.8	20MS	46	78
534	IPPSN2019-534	MP 20 - 19	13.3	40MS	29.3	60S	38.0	60S	40.0	60S	45	89
535	IPPSN2019-535	MPO 20 - 20	2.5	10S	0.1	TR	10.0	40S	7.3	40S	46	78
536	IPPSN2019-536	MP 20 - 21	1.9	5MS	1.0	5S	5.0	20S	22.4	40S	46	89
537	IPPSN2019-537	MP 20 - 22	9.0	20MS	1.6	5S	0.2	TS	28.8	60S	46	89
538	IPPSN2019-538	MP 20 - 23	1.0	10MR	0.1	TR	2.0	10S	39.5	80S	35	78
539	IPPSN2019-539	MP 20 - 24	3.0	10MS	15.4	60S	8.2	20S	36.5	60S	46	89
540	IPPSN2019-540	MP 20 - 25	1.4	10MS	6.0	20S	11.0	40S	33.3	60S	47	89
540A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	80.0	100S	72.5	100S	78	99
541	IPPSN2019-541	MP 20 - 26	31.7	60S	11.7	30S	14.0	40S	21.0	40S	46	89
542	IPPSN2019-542	MP 20 - 27	2.7	10S	38.3	100S	18.0	40S	15.6	40S	46	78
543	IPPSN2019-543	MP 20 - 28	8.3	20S	1.4	5MS	0.0	0	11.3	40S	46	89
544	IPPSN2019-544	MP 20 - 29	11.7	30S	13.7	40S	2.8	10MS	23.4	60S	45	89
545	IPPSN2019-545	MP 20 - 30	2.8	10MS	15.7	40S	4.6	10S	31.3	60S	46	78
Lokbharti												
546	IPPSN2019-546	LOK-2019-1	0.4	10R	0.9	5S	4.2	20S	25.6	60S	56	89
547	IPPSN2019-547	LOK-2019-2	0.2	TMR	3.4	20S	4.0	20S	28.6	60S	47	89
548	IPPSN2019-548	LOK-2019-3	9.1	20S	60.0	80S	52.0	60S	37.5	80S	46	89
549	IPPSN2019-549	LOK-2019-4	2.1	10MS	4.7	20MS	3.0	10S	29.5	60S	46	89
550	IPPSN2019-550	LOK-2019-5	0.7	5MR	0.0	TR	1.0	10MR	26.5	60S	45	99
551	IPPSN2019-551	LOK-2019-6	19.3	60S	0.1	TR	1.2	5S	33.8	60S	45	89
552	IPPSN2019-552	LOK-2019-7	0.9	10MR	1.4	10MS	0.8	5MS	26.8	60S	45	89
BHU, Varanasi												
553	IPPSN2019-553	HUWL 1901	2.0	5MS	19.4	80S	1.6	10MS	45.0	60S	35	48
554	IPPSN2019-554	HUWL 1902	2.0	10MS	1.7	5S	4.0	20S	43.8	60S	46	89
555	IPPSN2019-555	HUWL 1903	33.3	80S	58.3	80S	42.0	60S	40.0	60S	46	89
556	IPPSN2019-556	HUWL 1904	10.1	30S	20.4	40S	16.0	40S	26.4	60S	35	78
557	IPPSN2019-557	HUWL 1905	5.5	20MS	5.0	30S	7.0	20S	17.6	40S	45	78
558	IPPSN2019-558	HUWL 1906	6.2	20S	5.7	30S	0.4	5MR	19.5	40S	35	78
559	IPPSN2019-559	HUWL 1907	2.9	10MS	1.8	5S	0.2	TS	38.8	60S	45	89
560	IPPSN2019-560	HUWL 1908	10.2	20S	5.1	20S	20.2	60S	40.6	60S	46	89
560A	INFECTOR	INFECTOR	83.3	100S	80.0	100S	76.0	80S	75.0	100S	79	99
561	IPPSN2019-561	HUWL 1909	21.9	60S	5.9	20S	4.0	10S	31.1	60S	46	89
562	IPPSN2019-562	HUWL 1910	21.0	40S	6.2	20MS	20.0	40S	47.5	60S	45	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
563	IPPSN2019-563	HUWL 1911	0.8	5MR	0.1	TR	0.2	TS	47.0	60S	46	89
564	IPPSN2019-564	HUWL 1912	0.9	10MR	0.2	TMS	0.0	TR	41.5	60S	36	89
565	IPPSN2019-565	HUWL 1913	44.0	100S	30.7	60S	30.0	60S	29.5	60S	45	89
566	IPPSN2019-566	HUWL 1914	2.1	10MR	0.1	TMR	1.0	5S	46.3	60S	46	89
567	IPPSN2019-567	HUWL 1915	7.5	20S	2.1	10MS	8.2	40S	51.3	80S	46	89
568	IPPSN2019-568	HUWL 1916	38.7	100S	51.3	80S	34.0	60S	37.5	60S	46	89
569	IPPSN2019-569	HUWL 1917	3.7	10MS	2.2	5S	0.0	0	55.0	80S	45	89
570	IPPSN2019-570	HUWL 1918	3.4	10MS	1.8	10S	0.2	TS	55.0	80S	46	89
571	IPPSN2019-571	HUWL 1919	37.7	80S	2.9	10MS	0.0	0	43.1	60S	46	99
572	IPPSN2019-572	HUWL 1920	6.4	10S	5.7	20S	6.2	20MS	37.9	80S	35	46
573	IPPSN2019-573	HUWL 1921	21.7	100S	6.4	20S	1.0	5S	46.3	60S	36	49
574	IPPSN2019-574	HUWL 1922	5.1	20MS	22.7	80S	5.8	10S	34.0	60S	46	89
575	IPPSN2019-575	HUWL 1923	4.7	20MS	2.2	10MS	0.4	5MR	23.1	40S	45	89
576	IPPSN2019-576	HUWL 1924	20.0	60S	2.2	10MS	1.0	5S	25.0	40S	46	89
577	IPPSN2019-577	HUWL 1925	9.7	20S	2.2	10MS	4.0	20S	19.5	40S	46	78
578	IPPSN2019-578	HUWL 1926	7.9	20MS	2.7	10MS	1.2	5S	17.4	40S	46	78
579	IPPSN2019-579	HUWL 1927	5.8	20S	2.9	15MS	0.2	TS	17.9	40S	46	78
580	IPPSN2019-580	HUWL 1928	5.7	20S	1.5	10MR	2.6	10MS	26.4	40S	46	89
580A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	70.0	100S	78	99
581	IPPSN2019-581	HUWL 1929	29.7	80S	15.4	60S	11.2	40S	41.3	80S	45	89
582	IPPSN2019-582	HUWL 1930	19.7	40S	17.5	80S	0.2	TS	19.3	40S	46	89
583	IPPSN2019-583	HUWL 1931	28.0	40S	11.4	60S*	0.2	TS	23.1	40S	45	78
584	IPPSN2019-584	HUWL 1932	13.3	20S	10.4	40S	3.2	10S	12.0	40S	46	78
585	IPPSN2019-585	HUWL 1933	2.9	10MS	9.0	20S	12.0	20S	16.0	40S	36	78
586	IPPSN2019-586	HUWL 1934	27.5	100S	23.0	60S	28.0	60S	22.8	40S	36	78
587	IPPSN2019-587	HUWL 1935	17.3	60S	3.5	10S	5.0	10S	25.0	40S	45	78
588	IPPSN2019-588	HUWL 1936	24.0	40S	17.7	60S	7.0	20S	19.1	40S	46	67
589	IPPSN2019-589	HUWL 1937	44.7	80S	3.9	20MS	0.2	TS	20.6	60S	35	78
590	IPPSN2019-590	HUWL 1938	17.7	40S	13.0	40S	4.0	10S	26.6	40S	46	89
591	IPPSN2019-591	HUWL 1939	23.3	60S	13.0	20S	8.6	20MS	45.0	60S	46	89
592	IPPSN2019-592	HUWL 1940	21.0	40S	18.5	40S	14.2	30S	33.9	60S	35	78
SKUAST - Jammu												
593	IPPSN2019-593	JAUW 685	12.0	20S	20.9	80S	23.2	40S	23.4	60S	46	78
594	IPPSN2019-594	JAUW 686	8.2	40S	25.3	80S	11.4	20S	26.4	40S	46	89
595	IPPSN2019-595	JAUW 687	5.0	20MS	5.2	20MS	2.4	10S	16.4	40S	35	68
596	IPPSN2019-596	JAUW 688	10.0	40S	1.1	5S	1.0	5MR	32.3	60S	45	89
597	IPPSN2019-597	JAUW 689	4.4	10S	0.8	5MS	5.2	20MS	18.9	40S	46	89
598	IPPSN2019-598	JAUW 690	3.7	10MS	3.4	10S	4.0	10S	15.6	40S	46	89
599	IPPSN2019-599	JAUW 691	9.9	20S	3.1	10S	3.2	10S	8.7	20MS	35	35
600	IPPSN2019-600	JAUW 692	17.5	40S	1.4	10MS	2.0	10S	12.6	40S	46	89
600A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	80.0	100S	72.5	80S	68	99
601	IPPSN2019-601	JAUW 693	10.0	40MS	2.2	10MS	2.0	10S	14.3	40S	46	78
602	IPPSN2019-602	JAUW 694	6.9	20S	2.1	10MS	0.0	0	2.0	10S	46	89
SKUAST - Srinagar												
603	IPPSN2019-603	SKW 357	37.7	80S	38.0	80S	19.0	40S	21.1	40S	46	89
604	IPPSN2019-604	SKW 358	23.7	40S	19.1	60S	4.2	10S	19.3	60S	46	89
605	IPPSN2019-605	SKW 359	19.3	60S	23.0	40S	11.4	20S	51.3	80S	56	89
606	IPPSN2019-606	SKW 360	0.1	TR	18.1	60S	9.8	20S	21.4	60S	46	89
MPUAT, Udaipur												
607	IPPSN2019-607	PWU 10	2.0	20MR	1.8	10S	1.0	5S	2.6	10S	46	89
608	IPPSN2019-608	PWU 6	3.7	10MS	1.8	5S	1.0	5S	48.8	60S	46	89
609	IPPSN2019-609	PWU 8	8.5	30S	1.0	5S	1.6	10MS	8.6	40S	46	89
610	IPPSN2019-610	PWU 11	6.7	20S	0.9	5S	1.2	5S	3.3	10S	46	89
611	IPPSN2019-611	PWU 3	10.8	40S	2.3	10MS	2.2	10S	1.9	10MS	45	89
612	IPPSN2019-612	PWU 1	0.9	10MR	3.4	10S	0.4	5MR	55.0	80S	35	89
613	IPPSN2019-613	PWU 13	2.2	5MS	9.5	40S	3.8	10S	35.8	80S	46	89
614	IPPSN2019-614	PWU 4	2.4	10MS	0.1	TR	0.2	TS	5.3	20S	35	67
BARC, Mumbai												
615	IPPSN2019-615	TAW119	21.7	40S	5.7	20S	2.6	10MS	4.1	10S	46	78
616	IPPSN2019-616	TAW122	12.7	40S	30.3	100S	7.0	10S	10.3	40S	35	36
617	IPPSN2019-617	TAW123	29.8	80S	14.7	40S	2.2	10S	1.9	10S	36	89
618	IPPSN2019-618	TAW132	0.7	10MR	3.4	20MS	1.0	5S	16.1	40S	35	78
619	IPPSN2019-619	TAW134	2.0	10MS	3.4	20S	8.2	40S	15.3	60S	35	78
620	IPPSN2019-620	TAW135	7.4	20S	17.7	80S	7.2	20MS	12.4	40S	46	89
620A	INFECTOR	INFECTOR	76.7	100S	86.7	100S	76.0	80S	72.5	80S	68	99
621	IPPSN2019-621	TAW136	9.7	40S	3.6	20MS	8.2	40S	7.6	20S	45	78
622	IPPSN2019-622	TAW182	6.9	20MS	8.7	20S	7.4	20S	10.5	40S	46	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
623	IPPSN2019-623	TAW183	2.7	5MS	1.0	5S	0.2	TS	11.3	40S	46	89
624	IPPSN2019-624	TAW184	4.7	10MS	1.8	10S	0.2	TS	17.1	40S	45	89
BAU, Ranchi												
625	IPPSN2019-625	JKW 280	4.5	10S	7.2	40S	2.0	10S	28.6	60S	35	89
626	IPPSN2019-626	JKW 281	7.3	20MS	1.4	10MS	1.0	5MS	20.4	60S	34	68
627	IPPSN2019-627	JKW 282	12.0	20S	1.4	10MS	0.0	0	10.3	40S	35	68
628	IPPSN2019-628	JKW 283	8.4	20S	41.7	80S	33.0	60S	28.8	60S	45	89
629	IPPSN2019-629	JKW 284	26.3	40S	0.1	TR	1.6	10MS	7.5	40S	45	78
630	IPPSN2019-630	JKW 285	10.7	40MS	3.6	20S	1.0	5MS	6.1	20MS	46	89
631	IPPSN2019-631	JKW 286	18.7	40S	0.8	5MS	1.0	5S	16.3	40S	34	89
632	IPPSN2019-632	JKW 287	2.4	10S	2.1	10MS	4.0	10S	14.6	40S	46	89
633	IPPSN2019-633	JKW 288	0.3	5R	4.1	20S	0.0	0	12.0	40S	46	78
634	IPPSN2019-634	JKW 289	17.3	40S	27.7	100S	12.0	40S	2.6	10MS	46	89
RVSKVV, Gwalior												
635	IPPSN2019-635	RVW 4340	9.0	20MS	2.1	10MS	2.8	10MS	26.4	60S	36	89
636	IPPSN2019-636	RVW 4341	1.1	10MR	23.0	100S	0.6	5MR	28.3	60S	46	89
637	IPPSN2019-637	RVW 4342	0.4	10R	0.1	TR	0.4	5MR	35.0	60S	46	89
638	IPPSN2019-638	RVW 4343	2.8	20MR	15.4	80S*	4.6	10S	30.6	60S	45	89
639	IPPSN2019-639	RVW 4344	13.7	30S	29.3	80S	20.2	40S	40.0	60S	45	89
640	IPPSN2019-640	RVW 4345	14.5	40MS	28.0	100S	13.0	30S	40.0	60S	36	89
640A	INFECTOR	INFECTOR	73.3	100S	83.3	100S	80.0	100S	72.5	80S	68	99
641	IPPSN2019-641	RVW 4346	31.7	80S	16.0	20S	11.4	20S	27.6	60S	45	89
642	IPPSN2019-642	RVW 4347	11.7	40MS	47.3	100S	40.2	60S	40.0	60S	46	89
643	IPPSN2019-643	RVW 4348	1.3	10MR	9.4	40S	8.2	40S	33.1	60S	46	89
644	IPPSN2019-644	RVW 4349	14.4	40S	10.1	20S	12.2	20S	34.4	60S	46	89
Parbhani												
645	IPPSN2019-645	PBN 1544	3.7	10S	0.7	5MS	2.0	10S	48.1	80S	46	89
646	IPPSN2019-646	PBN 622	9.7	20S	26.3	80S	19.4	40S	48.8	80S	46	89
647	IPPSN2019-647	PBN 4871-1	19.0	40S	22.7	60S	19.4	40S	45.0	60S	35	89
648	IPPSN2019-648	PBND 5128	2.3	10S	1.4	10MS	1.8	5S	19.5	40S	46	78
649	IPPSN2019-649	PBND 1625-01	1.7	10S	1.4	10MS	1.8	10MS	8.9	40S	45	78
SDAU, Vijapur												
650	IPPSN2019-650	VA 2018-05	0.4	10R	0.1	TMR	1.0	5MS	29.3	60S	45	99
651	IPPSN2019-651	VA 2018-08	5.7	20MS	11.7	20S	4.2	20S	32.5	60S	46	99
652	IPPSN2019-652	VA 2018-10	1.5	10MS	0.1	TR	14.6	60S	31.9	60S	46	99
653	IPPSN2019-653	VA 2018-13	0.0	TR	0.0	TR	1.2	5S	32.3	60S	46	99
654	IPPSN2019-654	VA 2018-06	0.3	5R	0.1	TR	0.0	0	57.5	80S	46	99
655	IPPSN2019-655	VA 2018-12	1.2	10MR	1.4	10MS	0.0	0	48.8	60S	45	99
656	IPPSN2019-656	VA 2018-15	2.7	20MS	6.4	20S	3.4	10MS	24.4	60S	46	89
657	IPPSN2019-657	VA 2018-09	1.1	5MS	14.1	80S*	0.2	TS	34.1	60S	46	89
658	IPPSN2019-658	VA 2018-03	1.7	10S	0.4	5MR	0.2	TS	27.6	60S	46	99
659	IPPSN2019-659	VA 2018-14	3.1	20MS	0.1	TR	2.8	10MS	20.8	40S	46	89
660	IPPSN2019-660	VA 2018-04	6.0	30MS	10.0	40S	1.0	5S	43.8	80S	57	99
660A	INFECTOR	INFECTOR	73.3	100S	80.0	100S	80.0	100S	75.0	80S	68	99
661	IPPSN2019-661	VA 2018-11	3.7	20MR	0.3	TMS	2.0	10S	33.9	60S	56	99
662	IPPSN2019-662	VA 2018-28	1.6	5MS	1.7	10S	1.8	10MS	51.3	80S	46	99
663	IPPSN2019-663	VA 2018-17	1.9	5S	0.9	5S	5.2	20S	41.9	60S	56	99
664	IPPSN2019-664	VA 2018-21	2.0	10MR	0.1	TR	0.2	TS	40.0	60S	46	99
665	IPPSN2019-665	VA 2018-22	6.4	30MS	9.4	20S	0.2	TS	40.9	60S	56	99
666	IPPSN2019-666	VA 2018-30	6.3	30S	0.4	5MR	1.0	5S	50.0	60S	46	99
667	IPPSN2019-667	VA 2019-01	3.5	10S	1.6	5S	1.2	5S	26.0	40S	46	89
668	IPPSN2019-668	VD 2018-16	3.6	10MS	0.7	10MR	4.6	20S	9.0	40S	46	78
669	IPPSN2019-669	VD 2018-14	1.6	10MR	1.4	10MS	2.8	10MS	3.6	20S	47	89
670	IPPSN2019-670	VD 2018-09	3.7	10S	2.5	10MS	1.0	5MS	5.9	20S	46	89
671	IPPSN2019-671	VD 2018-07	2.0	20MR	0.2	TMS	1.0	5S	9.8	40S	46	89
672	IPPSN2019-672	VD 2018-13	1.4	10MS	0.1	TR	0.2	TS	22.8	60S	46	99
673	IPPSN2019-673	VD 2018-12	2.7	10MS	0.1	TR	1.0	5MS	8.1	20S	47	89
674	IPPSN2019-674	J 18-16	2.3	20MR	0.8	5MS	0.0	0	65.0	80S	46	89
675	IPPSN2019-675	J 18-02	6.3	20S	32.7	80S	15.2	40S	55.0	80S	46	89
676	IPPSN2019-676	J 18-11	18.7	40S	16.4	60S	4.0	20S	37.5	60S	46	89
677	IPPSN2019-677	J 18-21	18.5	30S	34.0	80S	20.2	40S	48.1	60S	47	89
678	IPPSN2019-678	J 18-13	7.1	30MS	19.2	80S	12.0	20S	36.3	60S	45	89
679	IPPSN2019-679	J 18-30	5.4	20S	15.1	60S	0.2	TS	30.0	60S	57	89
680	IPPSN2019-680	JD 18-12	9.4	40S	13.8	40S	3.4	20MS	6.9	20MS	47	89
680A	INFECTOR	INFECTOR	76.7	100S	90.0	100S	80.0	100S	75.0	80S	68	99
681	IPPSN2019-681	J 18-32	10.3	40S	3.7	20S	5.0	10S	57.5	80S	45	89
682	IPPSN2019-682	DR- 17-09	6.4	20MS	11.1	40MS	5.0	20S	45.5	80S	46	99

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
683	IPPSN2019-683	DR-19-01	8.0	20S	0.7	10MR	0.6	5MR	31.1	60S	47	99
684	IPPSN2019-684	DR-18-11	3.7	20MS	0.4	5MR	0.4	5MR	12.4	80S*	46	99
IGKV, Bilaspur												
685	IPPSN2019-685	CG 1901	2.7	10MS	4.1	20S	0.0	0	60.0	80S	45	99
686	IPPSN2019-686	CG 1902	4.3	20MS	4.8	20S	5.4	20MS	51.3	80S	46	89
687	IPPSN2019-687	CG 1903	26.3	40S	36.3	60S	34.0	60S	52.5	80S	35	59
688	IPPSN2019-688	CG 1904	7.5	20MS	9.4	40S	10.4	20S	51.3	80S	46	89
689	IPPSN2019-689	CG 1905	4.2	10S	9.6	40S	0.8	5MS	52.5	80S	46	78
690	IPPSN2019-690	CG 1906	2.0	10MR	0.4	5MR	0.6	5MR	55.0	80S	46	99
691	IPPSN2019-691	CG 1907	9.7	20S	2.4	10S	0.2	TS	20.5	40S	46	89
692	IPPSN2019-692	CG 1908	5.7	20MS	2.9	15MS	0.4	5MR	40.0	60S	46	89
693	IPPSN2019-693	CG 1909	20.7	40S	7.4	20S	8.0	20S	34.9	60S	46	89
694	IPPSN2019-694	CG 1910	5.4	30MS	0.1	TR	0.0	0	60.0	80S	46	89
695	IPPSN2019-695	CG 1911	5.6	20S	0.9	5S	4.8	20S	57.5	80S	46	99
696	IPPSN2019-696	CG 1912	7.7	20S	0.9	5MS	1.0	5MS	45.0	60S	46	89
697	IPPSN2019-697	CG 1913	10.7	30S	7.2	20MS	2.8	10S	41.3	60S	46	89
698	IPPSN2019-698	CG 1914	21.3	40S	2.8	10MS	0.8	5MS	52.5	80S	46	89
699	IPPSN2019-699	CG 1915	12.4	40MS	9.5	20MS	7.0	20MS	47.5	60S	46	89
CSSRI, Karnal												
700	IPPSN2019-700	KRL 1911	8.7	40MS	1.4	10MS	8.2	20S	32.5	60S	45	89
700A	INFECTOR	INFECTOR	80.0	100S	86.7	100S	80.0	100S	72.5	80S	68	99
701	IPPSN2019-701	KRL 1912	0.9	10MR	1.7	10S	2.2	10S	6.5	20MS	46	89
702	IPPSN2019-702	KRL 1913	22.7	60S	2.0	10MS	1.2	5S	9.3	40S	46	89
703	IPPSN2019-703	KRL 1914	6.4	20S	12.2	60S*	1.8	10MS	7.5	20S	35	78
704	IPPSN2019-704	KRL 1915	7.7	20S	3.1	10S	0.4	5MR	24.3	60S	35	89
705	IPPSN2019-705	KRL 1916	3.1	10MS	2.0	10MS	5.6	20S	32.6	60S	46	89
706	IPPSN2019-706	KRL 1917	19.4	40S	4.2	10MS	8.0	40S	22.4	60S	45	89
707	IPPSN2019-707	KRL 1918	12.0	40S	6.7	10S	4.2	20S	22.3	40S	46	78
708	IPPSN2019-708	KRL 1919	6.1	20S	32.7	100S	8.0	40S	44.0	60S	46	89
709	IPPSN2019-709	KRL 1920	14.0	30S	41.7	100S	34.0	60S	37.6	60S	46	78
710	IPPSN2019-710	KRL 1921	16.7	40S	2.9	10MS	20.2	60S	20.8	60S	46	78
711	IPPSN2019-711	KRL 1922	6.3	20MS	25.7	60S	32.0	40S	38.8	60S	46	99
712	IPPSN2019-712	KRL 1923	8.0	20MS	25.3	60S	30.0	60S	39.4	60S	46	99
713	IPPSN2019-713	KRL 1924	4.0	20MR	31.0	60S	38.2	60S	34.4	60S	46	99
714	IPPSN2019-714	KRL 1925	2.2	10MS	3.4	20S	0.2	TS	36.9	60S	46	89
715	IPPSN2019-715	KRL 1926	23.1	80S	4.3	20S	8.2	40S	35.5	60S	35	49
716	IPPSN2019-716	KRL 1927	39.0	80S	21.3	60S	6.0	20S	33.8	60S	56	99
717	IPPSN2019-717	KRL 1928	30.5	80S	14.3	30S	10.2	20S	47.5	80S	46	89
718	IPPSN2019-718	KRL 1929	27.3	80S	14.2	40S	6.2	20S	35.6	60S	57	99
719	IPPSN2019-719	KRL 1930	16.0	30S	17.3	40S	4.0	10S	45.0	80S	57	99
720	IPPSN2019-720	KRL 1931	3.3	20MR	4.6	20S	16.2	40S	48.8	80S	46	89
720A	INFECTOR	INFECTOR	76.7	100S	80.0	100S	80.0	100S	75.0	100S	78	99
721	IPPSN2019-721	KRL 1932	13.7	40MS	11.5	40S	16.0	40S	48.8	60S	46	89
722	IPPSN2019-722	KRL 1933	7.2	20MS	8.1	40S	7.2	20MS	27.5	60S	57	89
723	IPPSN2019-723	KRL 1934	3.1	20MR	9.2	40S	8.3	20S	40.0	60S	46	89
724	IPPSN2019-724	KRL 1935	11.7	40MS	52.0	100S	30.2	50S	41.3	60S	45	78
UAS, Dharwad												
725	IPPSN2019-725	UASD1901	13.5	40S	8.8	40MS	1.2	5S	23.6	40S	46	89
726	IPPSN2019-726	UASD1902	20.7	40S	10.9	60S*	1.6	10MS	16.9	40S	45	89
727	IPPSN2019-727	UASD1903	18.2	40S	4.3	20S	1.0	5MS	16.3	40S	46	78
728	IPPSN2019-728	UASD1904	15.5	40S	6.8	20S	0.0	0	15.3	40S	46	89
729	IPPSN2019-729	UASD1905	10.0	20S	10.3	40S	1.2	5S	10.2	20S	45	78
730	IPPSN2019-730	UASD1906	10.7	20S	5.4	30MS	1.8	5S	38.5	60S	46	78
731	IPPSN2019-731	UASD1907	13.0	40S	22.7	60S	3.8	10S	41.3	60S	46	89
732	IPPSN2019-732	UASD1908	13.5	40MS	12.7	20S	3.6	10S	25.3	60S	36	89
733	IPPSN2019-733	UASD1909	16.0	40MS	8.7	20S	0.2	TS	33.4	60S	56	89
734	IPPSN2019-734	UASD1910	13.7	40S	9.4	20S	3.6	10MS	24.4	40S	46	78
735	IPPSN2019-735	UASD1911	10.3	20S	3.6	10MS	3.2	10S	32.5	60S	46	78
736	IPPSN2019-736	UASD1912	12.4	30MS	11.4	40MS	0.0	0	27.7	60S	46	78
737	IPPSN2019-737	UASD1913	12.5	40MS	4.1	15MS	1.2	5S	13.3	40S	46	78
738	IPPSN2019-738	UASD1914	19.7	80S	6.1	20S	1.6	10MS	37.8	60S	46	89
739	IPPSN2019-739	UASD1915	41.7	80S	6.8	20S	0.0	TR	16.4	40S	35	78
740	IPPSN2019-740	UASD1916	43.0	80S	11.6	60S*	0.2	TS	21.9	40S	46	78
740A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	72.5	80S	68	99
741	IPPSN2019-741	UASD1917	12.7	40MS	5.4	20S	0.0	0	42.0	60S	56	89
742	IPPSN2019-742	UASD1918	22.7	80S	1.4	10MS	6.4	20S	5.0	20S	46	89
743	IPPSN2019-743	UASD1919	19.3	40S	4.8	20S	3.8	10S	5.8	20MS	46	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
744	IPPSN2019-744	UASD1920	8.4	40S	0.1	TR	1.2	5S	3.8	20MS	46	89
745	IPPSN2019-745	UASD1921	23.7	100S	0.1	TR	0.0	0	3.6	10MS	46	89
746	IPPSN2019-746	UASD1922	2.7	10S	0.1	TR	0.2	TS	3.9	10MS	46	89
747	IPPSN2019-747	UASD1923	8.0	20S	1.7	10S	0.2	TS	1.4	5MS	47	99
748	IPPSN2019-748	UASD1924	31.3	100S	2.4	10S	3.4	10S	1.8	5MS	46	89
749	IPPSN2019-749	UASD1925	13.7	60S	2.4	10S	2.6	5S	2.6	10MS	46	78
750	IPPSN2019-750	UASD1926	14.7	40MS	0.9	5S	1.0	5MS	9.6	40S	46	78
751	IPPSN2019-751	UASD1927	5.4	10S	0.1	TR	1.2	5S	21.4	40S	46	99
752	IPPSN2019-752	UASD1928	11.0	40MS	1.6	5S	1.6	5MS	16.1	40S	46	78
753	IPPSN2019-753	UASD1929	12.3	30S	1.4	20MR	2.2	10S	20.8	60S	46	78
754	IPPSN2019-754	UASD1930	8.0	30MS	0.1	TR	1.2	5S	19.6	40S	46	78
RARI, Durgapura												
755	IPPSN2019-755	WR 2015	2.2	20MR	0.1	TR	1.6	10MS	23.1	60S	46	89
756	IPPSN2019-756	WR 2016	5.4	10S	1.6	5S	0.2	TS	24.8	60S	45	78
757	IPPSN2019-757	WR 2017	4.0	30MR	2.6	10S	0.0	0	30.9	60S	45	78
758	IPPSN2019-758	WR 2018	4.0	30MS	11.0	40S	7.0	20MS	22.3	60S	46	78
759	IPPSN2019-759	WR 2019	2.4	10MS	2.0	10MS	3.0	10S	22.4	60S	46	89
760	IPPSN2019-760	WR 2020	1.9	10MR	0.9	5S	0.0	0	25.6	60S	46	89
760A	INFECTOR	INFECTOR	76.7	100S	86.7	100S	76.0	80S	72.5	100S	78	99
761	IPPSN2019-761	WR 2021	1.8	10MS	8.1	20S	16.0	40S	36.3	60S	45	78
762	IPPSN2019-762	WR 2022	5.5	20MS	21.4	60S	8.0	20S	29.6	80S	46	89
763	IPPSN2019-763	WR 2023	0.1	TR	0.7	5MS	1.2	5S	26.4	60S	36	89
764	IPPSN2019-764	WR 2024	0.3	5R	8.8	40S	1.0	10MR	32.3	60S	45	89
765	IPPSN2019-765	WR 2025	9.3	20MS	15.4	40S	17.0	40S	32.0	60S	46	89
766	IPPSN2019-766	WR 2026	3.8	10MS	28.7	80S	3.6	10S	46.3	60S	46	89
767	IPPSN2019-767	WR 2027	0.0	TR	0.0	TR	0.0	0	17.4	40S	35	46
768	IPPSN2019-768	WR 2028	0.2	5R	0.9	5S	2.0	5S	24.8	40S	35	89
769	IPPSN2019-769	WR 2029	9.2	20MS	2.6	10MS	5.4	20MS	20.1	40S	45	89
770	IPPSN2019-770	WR 2030	10.7	30S	5.2	15MS	5.0	10S	16.3	40S	46	89
771	IPPSN2019-771	WR 2031	11.4	40S	10.7	20S	4.6	10S	15.8	60S	45	89
772	IPPSN2019-772	WR 2032	1.5	20MR	0.0	TR	0.2	TS	20.8	60S	46	89
773	IPPSN2019-773	WR 2033	0.9	10MR	20.7	80S	11.4	20S	14.9	40S	46	89
774	IPPSN2019-774	WR 2034	4.5	10MS	15.2	80S*	0.2	TS	25.2	60S	46	89
775	IPPSN2019-775	WR 2035	4.7	20MS	5.4	20S	4.0	10S	28.0	60S	46	89
776	IPPSN2019-776	WR 2036	0.2	5R	3.0	10S	0.2	TS	16.4	60S	45	78
777	IPPSN2019-777	WR 2037	0.1	TR	3.5	20S	3.2	10S	24.5	60S	46	78
778	IPPSN2019-778	WR 2038	1.0	10MR	6.8	40S	3.2	10S	19.3	40S	46	78
779	IPPSN2019-779	WR 2039	21.3	40S	40.7	100S	20.8	40S	23.1	60S	46	78
780	IPPSN2019-780	WR 2040	9.4	40MS	2.8	20MS	2.0	10S	28.1	60S	56	89
780A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	75.0	100S	68	99
781	IPPSN2019-781	WR 2041	2.7	10MS	4.8	20S	1.6	10MS	24.5	60S	46	89
782	IPPSN2019-782	WR 2042	1.7	5S	0.1	TR	0.0	0	16.1	40S	46	89
783	IPPSN2019-783	WR 2043	1.4	10MS	0.9	5S	4.8	20S	18.5	60S	46	68
784	IPPSN2019-784	WR 2044	4.7	20MS	0.1	TR	0.4	5MR	20.3	40S	46	89
785	IPPSN2019-785	WR 2045	6.4	20S	1.4	10MS	0.6	5MR	20.5	40S	46	78
786	IPPSN2019-786	WR 2046	12.7	30MS	9.5	20S	0.8	10MR	26.1	60S	46	78
787	IPPSN2019-787	WR 2047	4.7	10S	3.6	20MS	1.0	5S	17.9	40S	45	99
788	IPPSN2019-788	WR 2048	4.2	10S	6.4	20MS	10.2	30S	29.3	60S	56	99
789	IPPSN2019-789	WR 2049	7.2	30MS	0.1	TR	1.0	5S	30.1	60S	46	89
790	IPPSN2019-790	WR 2050	2.9	20MS	2.7	20MS	0.4	5MR	22.3	60S	46	99
791	IPPSN2019-791	WR 2051	0.0	TR	0.9	5S	4.2	20S	17.6	60S	46	58
792	IPPSN2019-792	WR 2052	1.7	10MS	27.3	60S	11.0	20S	25.1	60S	36	89
793	IPPSN2019-793	WR 2053	2.2	5S	0.1	TR	4.0	10S	40.0	60S	45	78
794	IPPSN2019-794	WR 2054	4.8	20MS	2.2	10MS	8.8	20S	46.0	80S	46	89
795	IPPSN2019-795	WR 2055	10.3	20S	3.0	10MS	2.8	10S	24.0	60S	45	89
796	IPPSN2019-796	WR 2056	4.7	20MR	1.8	10S	0.2	TS	29.5	60S	35	47
797	IPPSN2019-797	WR 2057	9.3	20MS	16.4	80S	10.0	20S	21.3	60S	46	89
798	IPPSN2019-798	WR 2058	22.7	60S	29.2	80S	17.0	40S	14.6	40S	46	89
799	IPPSN2019-799	WR 2059	3.5	10MS	2.6	10S	0.2	TS	13.8	40S	46	89
800	IPPSN2019-800	WR 2060	32.0	60S	23.6	80S	15.2	60S	3.6	10S	46	89
800A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	72.5	80S	78	99
801	IPPSN2019-801	WR 2061	23.8	40S	4.1	40MR	0.4	5MR	16.5	40S	45	89
802	IPPSN2019-802	WR 2062	27.0	40S	5.1	20MS	0.2	TS	13.8	40S	35	78
803	IPPSN2019-803	WR 2063	9.7	20S	6.7	40S	0.2	TS	15.9	40MS	56	78
804	IPPSN2019-804	WR 2064	22.7	40S	9.1	40S	6.6	20S	27.5	60S	46	78
NIF												
805	IPPSN2019-805	BLK BALAGI	5.1	20MS	19.0	60S	17.0	40S	36.3	80S	47	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
806	IPPSN2019-806	KUDRAT 9	41.7	80S	17.8	40MS	1.8	20MR	42.3	60S	46	99
807	IPPSN2019-807	MOHIT GOLD	45.1	100S	39.0	80S	37.0	60S	47.5	60S	36	78
GBPUAT, Pantnagar												
808	IPPSN2019-808	UP1	15.2	60S	0.9	5S	4.0	20S	12.5	40S	45	78
809	IPPSN2019-809	UP2	8.1	30S	4.1	20S	5.0	10S	16.4	60S	35	67
810	IPPSN2019-810	UP3	18.9	40S	4.7	20S	9.2	20S	5.3	10S	35	57
811	IPPSN2019-811	UP4	42.0	80S	25.5	60S	12.8	50S	1.6	5S	46	89
812	IPPSN2019-812	UP5	6.1	20MS	2.2	10MS	2.4	10S	6.8	10S	46	78
813	IPPSN2019-813	UP6	30.0	80S	5.5	20S	0.2	TS	14.2	60S	46	89
814	IPPSN2019-814	UP7	15.4	40MS	17.0	80S*	0.0	0	14.5	40S	46	89
815	IPPSN2019-815	UP8	19.0	40S	18.0	80S	14.0	40S	19.8	60S	46	89
816	IPPSN2019-816	UP9	5.4	10MS	6.7	40S	0.0	0	16.2	60S	46	89
817	IPPSN2019-817	UP10	30.7	60S	5.6	20MS	4.8	10S	37.3	80S	35	89
818	IPPSN2019-818	UP11	12.4	40S	22.4	80S	13.2	40S	29.8	80S	46	78
819	IPPSN2019-819	UP12	18.3	40S	16.0	80S*	2.4	10S	22.0	60S	46	89
820	IPPSN2019-820	UP13	0.0	TR	0.1	TR	4.2	20S	13.5	30S	45	46
820A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	76.0	100S	70.0	80S	68	99
821	IPPSN2019-821	UP14	3.1	10MS	3.4	10S	2.8	10MS	17.4	40S	45	78
822	IPPSN2019-822	UP15	5.4	20S	0.1	TR	0.2	TS	8.4	20S	46	89
823	IPPSN2019-823	UP16	26.7	60S	0.2	TMR	1.0	5MS	18.8	60S	46	78
824	IPPSN2019-824	UP17	3.4	10MS	0.9	5S	5.4	20S	3.9	10MS	35	78
825	IPPSN2019-825	UP18	2.8	10MS	0.9	5S	2.0	10S	6.2	20S	46	89
826	IPPSN2019-826	UP19	1.0	5MR	0.9	5S	1.0	5MS	12.8	20S	46	89
827	IPPSN2019-827	UP20	21.2	60S	0.9	5MS	7.6	20S	11.7	40MS	36	78
828	IPPSN2019-828	UP21	21.2	40S	6.5	20S	1.2	5S	8.1	20S	46	78
829	IPPSN2019-829	UP22	10.5	20S	0.1	TR	10.2	40S	8.6	20S	45	78
830	IPPSN2019-830	UP23	4.1	20MS	0.1	TMR	1.2	5S	3.4	10S	45	78
831	IPPSN2019-831	UP24	9.4	20MS	2.1	10MS	0.0	0	4.9	10S	45	78
832	IPPSN2019-832	UP25	9.0	20MS	0.1	TR	0.2	TS	7.4	20MS	45	78
833	IPPSN2019-833	UP26	8.5	20MS	0.1	TR	9.2	20S	9.1	20S	45	89
834	IPPSN2019-834	UP27	9.0	40MS	0.2	TMS	0.0	0	6.9	20S	36	78
835	IPPSN2019-835	UP28	9.0	20S	1.6	5S	0.2	TS	7.1	20MS	46	89
836	IPPSN2019-836	UP29	2.2	10MS	12.3	60S*	1.0	5MS	7.1	20S	45	89
837	IPPSN2019-837	UP30	16.4	40MS	3.1	10S	1.6	10MS	11.3	20S	36	78
838	IPPSN2019-838	UP31	21.3	40MS	12.7	60S*	0.8	5MS	20.4	40S	46	78
839	IPPSN2019-839	UP32	27.5	60S	12.7	60S*	0.2	TS	12.6	40S	46	78
840	IPPSN2019-840	UP33	22.4	60S	3.7	20MS	8.2	40S	17.2	40S	47	78
840A	INFECTOR	INFECTOR	83.3	100S	83.3	100S	80.0	100S	75.0	100S	78	99
841	IPPSN2019-841	UP34	30.7	60S	8.4	20S	0.2	TS	19.3	40S	46	89
842	IPPSN2019-842	UP35	4.1	10MS	0.1	TR	4.6	20S	24.3	60S	35	36
843	IPPSN2019-843	UP36	31.3	60S	7.2	20S	9.4	40S	22.0	60S	45	78
844	IPPSN2019-844	UP37	30.7	80S	6.7	40MS	0.2	TS	17.9	40S	36	78
845	IPPSN2019-845	UP38	5.1	20S	4.4	20MS	1.2	5S	25.1	60S	46	89
846	IPPSN2019-846	UP39	8.1	20S	0.1	TMR	0.2	TS	5.4	10S	46	89
847	IPPSN2019-847	UP40	16.0	40S	0.1	TR	0.0	0	10.4	40S	24	35
848	IPPSN2019-848	UP41	7.4	20MS	23.7	60S	21.0	40S	9.8	20S	45	78
849	IPPSN2019-849	UP42	18.3	40MS	30.0	100S	22.0	40S	20.4	40S	46	78
850	IPPSN2019-850	UP43	36.0	80S	6.2	40MS	21.0	40S	13.9	40S	45	89
851	IPPSN2019-851	UP44	5.4	20MS	8.5	30S	16.2	60S	20.0	40S	46	78
852	IPPSN2019-852	UP45	30.7	60S	13.4	20S	7.2	20MS	13.1	40S	45	78
853	IPPSN2019-853	UP46	10.4	20S	12.3	60S*	2.0	10S	23.4	60S	36	78
854	IPPSN2019-854	UP47	14.0	30S	3.4	10S	6.0	20S	24.5	60S	46	89
855	IPPSN2019-855	UP48	0.2	5R	0.1	TMR	4.8	20S	11.8	40S	46	89
856	IPPSN2019-856	UP49	16.4	60S	4.0	10MS	2.0	10S	13.7	40S	46	89
857	IPPSN2019-857	UP50	25.3	80S	0.1	TMR	2.8	10MS	6.2	20S	46	89
858	IPPSN2019-858	UP51	7.7	20S	2.1	10MS	0.4	5MR	3.7	20MS	46	89
859	IPPSN2019-859	UP52	10.7	40MS	2.3	10MS	0.0	0	5.5	10S	46	89
860	IPPSN2019-860	UP53	2.8	10MS	2.7	10MS	5.8	20S	21.5	40S	46	89
860A	INFECTOR	INFECTOR	76.7	100S	86.7	100S	80.0	100S	77.5	100S	68	99
861	IPPSN2019-861	UP54	5.5	10S	2.2	10MS	0.2	TS	8.1	10S	45	78
862	IPPSN2019-862	UP55	14.7	40S	3.5	20MS	0.6	5MR	13.9	40S	46	78
863	IPPSN2019-863	UP56	22.0	60S	4.2	15MS	0.2	TS	22.1	60S	35	78
864	IPPSN2019-864	UP57	9.0	20MS	0.9	5S	1.0	5S	10.8	20S	35	89
865	IPPSN2019-865	UP58	9.4	40S	0.2	TMR	1.0	5S	14.5	40S	45	89
866	IPPSN2019-866	UP59	17.4	60S	0.1	TR	1.0	5S	11.3	40S	36	89
867	IPPSN2019-867	UP60	26.4	80S	0.1	TMR	1.2	5S	10.1	20S	45	89
SHUATs, Allahabad												

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
868	IPPSN2019-868	AAI-W28/MR-3014/10/4/11	18.0	40S	19.7	40S	16.2	40S	55.5	80S	45	99
869	IPPSN2019-869	AAI-W29/MR-3012-1/4/3	26.0	60S	53.3	100S	45.0	80S	60.0	80S	46	89
870	IPPSN2019-870	AAI-W34[MR 3012]	8.2	20S	3.4	10MS	6.6	20S	20.8	40S	36	78
871	IPPSN2019-871	SHUATS - W49	20.0	60S	22.2	80S	23.2	40S	21.9	60S	46	89
872	IPPSN2019-872	SHUATS - W50 [MR-3161/23]	11.5	20S	32.9	80S	38.0	60S	37.5	60S	46	99
873	IPPSN2019-873	SHUATS - W70 [MR-3144/13]	16.4	40S	0.1	TR	0.8	5MS	17.9	60S	46	99
874	IPPSN2019-874	AAI-W15 [94]	2.1	20MR	0.1	TR	1.0	5S	24.1	40S	45	78
875	IPPSN2019-875	AAI-W21 [MR-1003]	11.0	20S	15.7	40S	29.2	40S	31.8	80S	46	89
RPCAU, Pusa												
876	IPPSN2019-876	RAUW 4	3.1	10MS	10.0	20S	21.2	40S	38.8	80S	46	89
877	IPPSN2019-877	RAUW 6	10.7	20S	21.4	60S	27.4	40S	48.8	80S	45	99
878	IPPSN2019-878	RAUW 7	11.0	20S	20.0	60S	22.6	40S	40.0	80S	46	99
879	IPPSN2019-879	RAUW 104	15.2	40S	4.4	20MS	0.2	TS	18.1	60S	36	78
880	IPPSN2019-880	RAUW 105	24.5	60S	12.8	60S	1.0	5S	26.8	60S	35	78
880A	INFECTOR	INFECTOR	90.0	100S	86.7	100S	80.0	100S	67.5	80S	68	99
BAU, Sabour												
881	IPPSN2019-881	BRW 3878	6.5	20S	55.3	100S	34.0	60S	37.6	80S	35	68
882	IPPSN2019-882	BRW 3879	15.3	60S	29.4	80S	21.2	60S	27.6	60S	35	68
883	IPPSN2019-883	BRW 3880	24.8	80S	20.7	60S	5.6	10S	35.0	60S	36	68
884	IPPSN2019-884	BRW 3881	31.7	60S	34.3	100S	14.0	20S	35.0	80S	46	89
885	IPPSN2019-885	BRW 3882	9.3	20S	11.1	40S	16.0	20S	23.6	60S	46	78
886	IPPSN2019-886	BRW 3883	19.0	40S	31.3	80S	8.8	20MS	32.5	60S	46	89
887	IPPSN2019-887	BRW 3884	13.7	40S	13.0	40S	9.8	20S	27.0	60S	36	68
888	IPPSN2019-888	BRW 3885	33.3	60S	28.7	80S	9.0	20S	35.0	60S	46	89
889	IPPSN2019-889	BRW 3886	20.0	40S	13.3	40S	8.2	20S	36.9	60S	46	89
890	IPPSN2019-890	BRW 3887	21.7	40S	33.3	60S	32.2	40S	36.8	80S	36	78
891	IPPSN2019-891	BRW 3888	20.3	40S	6.7	20S	4.0	10S	33.1	60S	46	89
892	IPPSN2019-892	BRW 3889	18.0	40S	26.3	60S	14.2	40S	31.3	60S	36	89
893	IPPSN2019-893	BRW 3890	8.0	20MS	19.4	60S	15.0	40S	37.5	60S	46	89
894	IPPSN2019-894	BRW 3891	19.3	40S	21.0	40S	24.2	60S	40.0	60S	35	78
895	IPPSN2019-895	BRW 3892	19.7	40S	7.4	40S	0.0	0	23.1	40S	46	78
896	IPPSN2019-896	BRW 3893	18.7	40S	16.0	40S	5.4	20S	28.1	60S	46	78
897	IPPSN2019-897	BRW 3894	37.0	80S	8.4	40S	0.2	TS	35.8	60S	46	89
898	IPPSN2019-898	BRW 3895	6.1	40MS	8.0	20S	5.6	20S	15.0	40S	46	89
899	IPPSN2019-899	BRW 3896	23.4	60S	16.4	40S	0.0	TR	12.1	40S	46	78
900	IPPSN2019-900	BRW 3897	18.1	60S	1.4	10MS	10.0	40S	19.5	40S	46	78
900A	INFECTOR	INFECTOR	90.0	100S	86.7	100S	76.0	80S	77.5	100S	68	99
901	IPPSN2019-901	BRW 3898	14.7	40S	3.4	10MS	0.2	TS	24.4	40S	46	78
902	IPPSN2019-902	BRW 3899	10.7	20S	2.0	10MS	1.2	5S	30.0	60S	46	89
903	IPPSN2019-903	BRW 3900	8.0	20MS	2.1	10MS	0.2	TS	25.3	40S	47	89
904	IPPSN2019-904	BRW 3901	8.7	20MS	3.4	10MS	1.0	5MS	20.7	40S	46	89
905	IPPSN2019-905	BRW 3902	8.0	20MS	1.5	10MS	4.2	20S	10.6	20MS	46	78
10th HYPT												
906	IPPSN2019-906	10TH HYPT-402	5.3	10S	2.8	10MS	6.0	20S	17.0	40S	46	89
907	IPPSN2019-907	10TH HYPT-403	16.7	40S	8.8	20MS	1.0	5S	22.4	60S	45	99
908	IPPSN2019-908	10TH HYPT-404	8.7	20S	3.1	20MS	4.0	20S	13.8	40S	46	89
909	IPPSN2019-909	10TH HYPT-405	16.7	40S	0.1	TR	0.2	TS	18.6	40S	46	89
910	IPPSN2019-910	10TH HYPT-406	17.7	40S	1.4	10MS	1.0	5MS	21.9	40S	46	89
911	IPPSN2019-911	10TH HYPT-407	27.5	60S	1.8	10MS	0.2	TS	14.8	40S	46	78
912	IPPSN2019-912	10TH HYPT-408	6.4	20S	0.1	TR	0.6	5MR	21.4	40S	46	78
913	IPPSN2019-913	10TH HYPT-409	4.9	20S	9.7	20S	9.0	40S	12.6	20S	46	78
914	IPPSN2019-914	10TH HYPT-410	7.0	10S	6.7	20S	11.4	40S	13.6	40S	36	78
915	IPPSN2019-915	10TH HYPT-411	2.9	10MS	0.4	5MR	4.4	20S	9.7	20S	45	89
916	IPPSN2019-916	10TH HYPT-412	6.8	30MS	3.4	10S	6.4	20S	7.1	20S	46	89
917	IPPSN2019-917	10TH HYPT-413	3.4	10MS	2.7	20MS	0.2	TS	7.9	20S	35	78
918	IPPSN2019-918	10TH HYPT-414	10.8	40S	2.0	10MS	5.0	20S	12.5	40S	46	89
919	IPPSN2019-919	10TH HYPT-415	12.0	40S	2.2	10MS	4.0	20S	11.1	20S	46	89
920	IPPSN2019-920	10TH HYPT-416	21.3	60S	4.9	20S	1.8	10MS	12.8	20S	46	89
920A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	80.0	100S	75.0	100S	68	99
921	IPPSN2019-921	10TH HYPT-417	30.0	60S	3.0	10MS	4.0	10S	19.5	60S	46	89
922	IPPSN2019-922	10TH HYPT-418	29.4	80S	1.5	10MS	1.0	5MS	30.6	60S	47	89
923	IPPSN2019-923	10TH HYPT-419	9.0	20MS	1.4	10MS	2.0	10S	9.7	20S	45	89
924	IPPSN2019-924	10TH HYPT-420	12.0	40S	6.1	20S	4.0	20S	10.4	20S	45	89
925	IPPSN2019-925	10TH HYPT-421	12.4	60S	2.1	10S	1.0	5S	23.8	60S	46	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
926	IPPSN2019-926	10TH HYPT-422	9.3	40S	4.7	20S	2.0	5S	14.0	40S	46	89
927	IPPSN2019-927	10TH HYPT-423	11.2	40S	1.2	5S	2.8	10MS	13.1	40S	46	89
928	IPPSN2019-928	10TH HYPT-424	6.5	20MS	9.3	30S	16.2	40S	16.3	40S	46	89
929	IPPSN2019-929	10TH HYPT-425	3.4	20MS	3.5	20S	0.2	TS	14.5	40S	46	89
930	IPPSN2019-930	10TH HYPT-426	18.0	60S	5.0	10S	3.6	10S	23.6	60S	35	78
931	IPPSN2019-931	10TH HYPT-427	18.0	60S	5.2	20MS	4.8	20S	21.4	40S	45	89
932	IPPSN2019-932	10TH HYPT-428	16.0	60S	1.5	10MS	0.2	TS	12.5	20S	46	89
933	IPPSN2019-933	10TH HYPT-429	7.7	20S	0.7	5MS	2.2	5S	12.8	40S	46	89
934	IPPSN2019-934	10TH HYPT-430	10.0	40S	3.1	10S	5.0	20S	14.4	20S	46	89
935	IPPSN2019-935	10TH HYPT-431	10.9	40	0.0	TR	1.0	5S	14.6	40S	46	89
936	IPPSN2019-936	10TH HYPT-432	13.3	40S	8.3	20S	3.8	10S	13.6	40S	46	78
937	IPPSN2019-937	10TH HYPT-433	24.0	60S	4.4	10MS	6.8	20S	11.4	20S	46	89
938	IPPSN2019-938	10TH HYPT-434	26.8	80S	1.5	5MS	2.8	10S	12.3	20S	46	89
939	IPPSN2019-939	10TH HYPT-435	23.3	60S	1.7	10MS	9.2	40S	15.6	40S	46	89
940	IPPSN2019-940	10TH HYPT-436	19.4	60S	1.4	10MS	0.2	TS	16.1	40S	46	89
940A	INFECTOR	INFECTOR	76.7	100S	90.0	100S	80.0	100S	77.5	100S	78	99
941	IPPSN2019-941	10TH HYPT-437	28.5	60S	30.7	80S	12.0	20S	38.3	60S	46	89
942	IPPSN2019-942	10TH HYPT-438	14.1	40S	2.7	10MS	1.0	5S	25.0	80S	45	78
943	IPPSN2019-943	10TH HYPT-439	20.7	60S	1.8	10MS	1.2	5S	25.6	80S	36	78
944	IPPSN2019-944	10TH HYPT-440	7.4	20S	0.1	TMR	0.8	5MS	14.5	40S	45	89
945	IPPSN2019-945	10TH HYPT-441	10.3	40S	1.3	5MS	0.6	5MR	8.0	20MS	35	89
946	IPPSN2019-946	10TH HYPT-442	9.8	20S	4.1	20S	2.6	10S	25.0	60S	45	89
947	IPPSN2019-947	10TH HYPT-443	7.4	20S	5.4	20S	2.4	5S	20.0	40S	45	78
948	IPPSN2019-948	10TH HYPT-444	15.0	40S	1.5	20MR	14.4	60S	10.7	20S	46	78
949	IPPSN2019-949	10TH HYPT-445	19.0	40S	0.2	TMS	10.8	40S	10.4	20S	46	89
950	IPPSN2019-950	10TH HYPT-446	17.0	40S	0.9	5S	1.4	5S	24.0	60S	46	89
951	IPPSN2019-951	10TH HYPT-447	3.8	10S	0.1	TMR	1.2	5S	11.0	40S	46	89
952	IPPSN2019-952	10TH HYPT-448	6.1	20S	0.7	10MR	0.4	5MR	23.9	60S	45	89
953	IPPSN2019-953	10TH HYPT-449	15.3	40S	1.7	10MS	0.0	0	17.8	40S	46	89
954	IPPSN2019-954	10TH HYPT-450	8.7	20S	0.5	5MR	4.0	20S	20.5	40S	45	89
CI - HYT 2019-20												
955	IPPSN2019-955	HYT 1	4.7	20S	0.7	10MR	14.2	40S	10.1	20S	45	78
956	IPPSN2019-956	HYT 2	16.7	60S	0.5	5MR	7.2	20S	16.7	40S	35	78
957	IPPSN2019-957	HYT 3	20.7	60S	2.9	20MS	0.2	TS	9.6	20S	35	78
958	IPPSN2019-958	HYT 4	28.7	60S	3.4	20S	2.0	5S	5.1	10S	46	89
959	IPPSN2019-959	HYT 5	26.0	60S	3.5	20MS	1.8	5S	6.1	10S	46	89
960	IPPSN2019-960	HYT 6	26.7	60S	4.1	20S	1.0	5S	19.4	40S	47	89
960A	INFECTOR	INFECTOR	90.0	100S	90.0	100S	80.0	100S	75.0	100S	78	99
961	IPPSN2019-961	HYT 7	19.3	40S	17.8	40S	0.2	TS	14.4	40S	45	89
962	IPPSN2019-962	HYT 8	29.2	60S	6.8	20S	0.4	5MR	12.2	40S	35	45
963	IPPSN2019-963	HYT 9	7.5	10S	3.4	10S	1.0	5S	4.8	10S	45	89
964	IPPSN2019-964	HYT 10	8.2	20MS	1.4	10MS	1.0	5MS	4.3	10S	46	89
965	IPPSN2019-965	HYT 11	7.7	20MS	0.7	10MR	4.2	20S	9.1	20MS	46	89
966	IPPSN2019-966	HYT 12	12.5	40S	8.7	20S	7.2	20S	14.5	40S	46	89
967	IPPSN2019-967	HYT 13	26.0	80S	4.4	20MS	1.4	5S	5.5	20MS	46	89
968	IPPSN2019-968	HYT 14	22.7	60S	14.0	60S	1.0	5S	6.3	20S	45	89
969	IPPSN2019-969	HYT 15	22.7	60S	1.5	10MS	0.2	TS	6.3	20MS	46	89
970	IPPSN2019-970	HYT 16	2.8	10MS	6.8	40S	1.0	5S	6.5	20S	46	89
971	IPPSN2019-971	HYT 17	32.0	80S	14.0	60S	7.4	20S	14.4	40S	46	89
972	IPPSN2019-972	HYT 18	9.5	20S	0.1	TR	0.2	TS	13.4	40S	46	89
973	IPPSN2019-973	HYT 19	3.5	10S	6.4	30S	8.2	40S	28.0	60S	24	46
974	IPPSN2019-974	HYT 20	10.1	40MS	0.1	TR	1.8	10MS	5.9	10S	46	89
975	IPPSN2019-975	HYT 21	4.3	10MS	1.4	10MS	1.8	10MS	14.7	40S	36	46
976	IPPSN2019-976	HYT 22	0.9	5MS	0.0	TR	4.0	20S	1.6	5S	46	78
977	IPPSN2019-977	HYT 23	5.5	20S	1.4	10MS	8.2	40S	18.0	60S	45	78
978	IPPSN2019-978	HYT 24	39.7	80S	8.0	20S	8.2	20S	24.6	60S	45	89
979	IPPSN2019-979	HYT 25	15.7	40S	11.7	20S	2.0	10S	26.3	60S	46	78
PI - Crop Improvement												
980	IPPSN2019-980	RWP2019-1	19.2	40S	10.9	40S	11.8	40S	23.1	40S	45	78
980A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	75.0	100S	68	99
981	IPPSN2019-981	RWP2019-2	11.7	40S	5.4	20S	4.2	20S	18.6	40S	45	89
982	IPPSN2019-982	RWP2019-3	33.0	80S	2.2	10MS	0.2	TS	17.1	40S	46	89
983	IPPSN2019-983	RWP2019-4	28.7	60S	4.6	20MS	0.6	5MR	12.5	40S	46	78
984	IPPSN2019-984	RWP2019-5	4.1	10MS	9.4	40S	9.0	40S	24.9	60S	46	89
985	IPPSN2019-985	RWP2019-6	16.7	40S	3.4	15MS	12.6	60S*	18.6	40S	46	89
986	IPPSN2019-986	RWP2019-7	9.7	20S	3.4	20S	9.8	40S	9.3	20S	46	78
987	IPPSN2019-987	LBP2019-1	16.0	40S	0.2	TMR	0.2	TS	6.1	20S	46	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
988	IPPSN2019-988	LBP2019-2	7.7	20S	3.4	20MS	0.2	TS	16.0	40S	45	89
989	IPPSN2019-989	LBP2019-3	18.7	40S	2.2	10MS	1.0	5S	7.0	10S	46	89
990	IPPSN2019-990	LBP2019-4	14.0	30S	0.9	10MR	0.2	TS	14.5	40S	46	89
991	IPPSN2019-991	LBP2019-5	9.7	20S	24.7	80S	8.2	20S	13.6	40S	36	48
992	IPPSN2019-992	LBP2019-6	3.9	10S	1.4	10MS	4.2	20S	11.4	20S	46	78
993	IPPSN2019-993	LBP2019-7	17.2	40S	26.4	80S	15.0	40S	9.4	40S	46	68
994	IPPSN2019-994	LBP2019-8	12.0	40S	2.7	10MS	0.2	TS	9.7	20S	35	68
995	IPPSN2019-995	LBP2019-9	26.0	40S	17.1	80S	8.2	20S	8.9	20S	35	78
996	IPPSN2019-996	LBP2019-10	7.7	10S	2.7	20MS	1.0	5S	17.4	40S	46	89
997	IPPSN2019-997	LBP2019-11	25.3	60S	21.3	60S	6.6	10S	21.5	40S	46	89
998	IPPSN2019-998	DWAP1901	21.3	40S	20.7	40S	10.6	20S	21.0	40S	46	89
999	IPPSN2019-999	DWAP1902	6.9	20S	8.7	40S	0.2	TS	21.4	40S	46	89
1000	IPPSN2019-1000	DWAP1903	22.7	60S	30.0	100S	26.2	40S	21.1	60S	46	89
1000A	INFECTOR	INFECTOR	83.3	100S	93.3	100S	80.0	100S	75.0	80S	68	99
1001	IPPSN2019-1001	DWAP1904	2.8	20MR	0.8	5MS	0.2	TS	23.0	60S	45	78
1002	IPPSN2019-1002	DWAP1905	11.0	20S	17.4	80S	1.2	5S	5.6	20MS	46	78
1003	IPPSN2019-1003	DWAP1906	14.1	40S	2.7	10MS	1.0	5S	12.9	40S	45	78
1004	IPPSN2019-1004	DWAP1907	35.7	80S	4.0	10S	1.0	5S	16.3	40S	46	68
1005	IPPSN2019-1005	DWAP1908	2.2	10MR	0.8	5MS	2.0	10S	4.3	10S	46	68
1006	IPPSN2019-1006	DWAP1909	7.7	20S	18.8	80S	5.0	10S	18.2	60S	46	78
1007	IPPSN2019-1007	BST1901	37.5	80S	13.5	40MS	5.0	10S	15.4	40S	35	78
1008	IPPSN2019-1008	QST1901	22.0	40S	2.7	20MS	1.0	5S	13.1	40S	36	68
1009	IPPSN2019-1009	QST1902	5.7	20MS	2.9	10MS	1.4	5S	10.0	40S	45	78
1010	IPPSN2019-1010	QST1903	8.7	20S	4.4	10S	1.0	5S	15.5	40S	46	89
1011	IPPSN2019-1011	DWM1822	27.3	80S	4.1	10MS	1.0	5S	10.9	40S	47	89
1012	IPPSN2019-1012	RWP2019-8	12.3	40MS	22.4	80S	5.4	10S	2.9	10S	46	89
1013	IPPSN2019-1013	RWP2019-9	29.7	60S	26.7	80S	9.8	20S	2.7	10S	46	89
1014	IPPSN2019-1014	RWP2019-10	22.1	60S	27.7	80S	9.2	20MS	19.6	60S	46	89
1015	IPPSN2019-1015	LBP2019-12	12.7	40S	2.2	10MS	2.8	5S	13.3	40S	46	78
1016	IPPSN2019-1016	LBP2019-13	5.0	10S	1.4	10MS	2.8	10MS	21.9	40S	45	68
1017	IPPSN2019-1017	LBP2019-14	5.7	10S	1.9	10S	4.0	10S	18.9	40S	46	78
1018	IPPSN2019-1018	LBP2019-15	10.5	40MS	23.0	80S	8.0	20S	19.0	60S	46	78
1019	IPPSN2019-1019	LBP2019-16	20.3	40S	7.0	20S	4.2	10S	12.6	40S	46	89
1020	IPPSN2019-1020	LBP2019-17	7.7	20MS	5.5	20MS	2.0	5S	20.2	40S	45	89
1020A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	72.5	100S	78	99
1021	IPPSN2019-1021	LBP2019-18	6.7	20MS	3.4	10S	3.8	10S	23.3	40S	46	89
1022	IPPSN2019-1022	LBP2019-19	32.7	80S	8.5	40S	6.8	20S	24.4	60S	45	89
1023	IPPSN2019-1023	LBP2019-20	8.7	20S	23.4	100S	5.0	20S	29.4	60S	45	89
1024	IPPSN2019-1024	LBP2019-21	3.2	10S	5.5	20S	6.2	20MS	15.7	40S	35	78
1025	IPPSN2019-1025	DWAP1910	1.7	20MR	13.4	80S	0.2	TS	27.6	80S	45	78
1026	IPPSN2019-1026	DWAP1911	5.1	20S	0.4	5MR	0.0	0	30.0	60S	45	78
1027	IPPSN2019-1027	BST1902	5.7	20MS	3.3	20MS	1.8	5S	9.9	20S	35	89
1028	IPPSN2019-1028	BST1903	11.3	40S	0.7	5MS	2.0	5S	7.0	20S	35	89
1029	IPPSN2019-1029	BST1904	4.7	20MS	0.9	5S	2.0	5S	3.4	10S	45	78
1030	IPPSN2019-1030	BST1905	2.0	10S	0.1	TR	0.2	TS	3.2	20S	46	78
1031	IPPSN2019-1031	BST1906	7.0	20S	6.2	40MS	7.0	30S	3.0	10S	36	78
1032	IPPSN2019-1032	QST1904	36.7	80S	6.8	40S	0.2	TS	20.2	40S	35	89
1033	IPPSN2019-1033	PYTSR05	7.2	20MS	3.4	10MS	0.2	TS	21.9	40S	35	89
1034	IPPSN2019-1034	RWP2019-11	2.0	5MS	0.2	TMS	0.2	TS	4.3	10S	35	89
1035	IPPSN2019-1035	RWP2019-12	12.4	40S	8.5	40S	0.2	TS	11.6	40S	46	89
1036	IPPSN2019-1036	RWP2019-13	13.0	40S	3.5	15MS	3.6	10S	13.9	40S	46	89
1037	IPPSN2019-1037	RWP2019-14	4.0	10MS	1.4	20MR	0.0	0	9.6	40S	46	89
1038	IPPSN2019-1038	RWP2019-15	29.3	80S	20.7	60S	5.0	10S	12.1	40S	45	68
1039	IPPSN2019-1039	RWP2019-16	28.7	80S	0.1	TR	0.2	TS	8.0	20S	46	89
1040	IPPSN2019-1040	LBP2019-22	22.3	80S	0.1	TR	0.2	TS	34.8	80S	46	89
1040A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	76.0	80S	72.5	100S	78	99
1041	IPPSN2019-1041	LBP2019-23	2.1	10MR	6.7	40S	1.0	5S	21.4	60S	35	57
1042	IPPSN2019-1042	LBP2019-24	5.7	20MS	0.0	TR	0.2	TS	18.0	40S	45	78
1043	IPPSN2019-1043	LBP2019-25	3.3	10MS	11.7	60S*	2.8	10MS	6.0	20S	46	89
1044	IPPSN2019-1044	LBP2019-26	1.0	10MR	10.1	60S*	3.2	10S	9.9	40S	34	56
1045	IPPSN2019-1045	LBP2019-27	1.4	10MR	0.0	TR	4.0	10S	17.7	60S	45	89
1046	IPPSN2019-1046	DWAP1912	5.7	20MS	1.4	5S	4.0	10S	5.3	20MS	46	89
1047	IPPSN2019-1047	DWAP1913	2.0	5MS	1.6	5S	1.0	5S	8.5	40S	45	89
1048	IPPSN2019-1048	DWAP1914	1.5	10MS	0.0	TR	0.2	TS	12.6	20S	45	89
1049	IPPSN2019-1049	DWAP1915	3.4	20MS	0.0	TR	2.0	10S	11.5	20S	46	78
1050	IPPSN2019-1050	DWAP1916	0.8	10MR	10.3	40S	2.0	10S	16.5	60S	47	89
1051	IPPSN2019-1051	QST1905	8.9	20S	0.1	TMR	12.2	40S	8.0	20S	46	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
1052	IPPSN2019-1052	QST1906	40.7	100S	9.4	20S	0.6	5MR	33.4	60S	46	89
1053	IPPSN2019-1053	QST1907	5.7	10S	8.2	20S	21.0	40S	13.7	40S	46	89
1054	IPPSN2019-1054	QST1908	21.4	80S	2.4	10S	2.0	10S	11.9	40S	56	78
1055	IPPSN2019-1055	QST1909	5.4	20S	3.4	20S	2.2	10S	7.0	20S	46	89
1056	IPPSN2019-1056	RWP2019-17	16.2	40S	12.3	40S	5.0	20S	11.4	40S	46	78
1057	IPPSN2019-1057	RWP2019-18	18.7	40S	3.4	20S	0.2	TS	6.8	20S	46	89
1058	IPPSN2019-1058	RWP2019-19	20.0	40S	2.7	20MS	17.0	40S	12.6	40S	45	89
1059	IPPSN2019-1059	RWP2019-20	25.3	60S	17.8	60S	24.2	60S	19.4	60S	46	89
1060	IPPSN2019-1060	RWP2019-21	24.7	60S	0.1	TR	0.2	TS	16.0	40S	45	57
1060A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	75.0	100S	68	99
1061	IPPSN2019-1061	RWP2019-22	0.8	10MR	0.1	TR	0.2	TS	20.5	40S	45	89
1062	IPPSN2019-1062	RWP2019-23	18.3	40S	3.4	20S	18.6	40S	10.1	20S	47	89
1063	IPPSN2019-1063	LBP2019-28	26.1	60S	22.3	80S	24.2	40S	24.8	60S	56	89
1064	IPPSN2019-1064	LBP2019-29	38.7	80S	20.1	80S	24.0	40S	10.4	40S	46	68
1065	IPPSN2019-1065	LBP2019-30	36.7	80S	22.1	80S	22.2	40S	11.4	40S	35	78
1066	IPPSN2019-1066	DWAP1917	8.7	20S	20.0	80S	21.0	40S	10.9	20S	35	68
1067	IPPSN2019-1067	DWAP1918	9.4	20MS	26.7	80S	17.6	40S	14.8	40S	46	89
1068	IPPSN2019-1068	DWAP1919	1.7	10MR	13.4	80S*	2.0	10S	15.1	20S	36	89
1069	IPPSN2019-1069	DWAP1920	3.9	10S	5.4	40MS	2.0	10S	16.1	40S	45	89
1070	IPPSN2019-1070	DWAP1921	20.3	40S	4.4	20S	14.0	40S	19.1	40S	45	89
1071	IPPSN2019-1071	DWAP1922	8.7	20S	0.1	TMR	0.2	TS	14.3	40S	45	89
1072	IPPSN2019-1072	BST1907	5.3	10S	1.4	10MS	1.8	5MS	15.7	40S	45	89
1073	IPPSN2019-1073	BST1908	24.3	60S	6.1	40MS	7.0	20S	7.5	20S	46	78
1074	IPPSN2019-1074	BST1909	9.1	20S	3.4	20MS	3.0	10S	8.8	40S	46	78
1075	IPPSN2019-1075	QST1910	13.0	40S	4.0	20S	1.0	5S	10.5	40S	46	89
1076	IPPSN2019-1076	QST1911	8.2	40MS	0.1	TMR	2.0	10S	6.5	20S	46	89
1077	IPPSN2019-1077	GRU/17-18/8	8.7	40MS	1.7	10MS	5.0	20S	5.3	20S	45	89
VPKAS, Almora												
1078	IPPSN2019-1078	VW1901	13.3	30S	1.7	10MS	0.2	TS	3.0	10S	36	89
1079	IPPSN2019-1079	VW1902	6.7	20MS	0.4	5MR	13.4	40S	15.8	40S	35	78
1080	IPPSN2019-1080	VW1903	4.3	10S	0.7	5MS	5.0	20S	23.9	60S	35	68
1080A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	80.0	100S	70.0	80S	68	99
1081	IPPSN2019-1081	VW1904	12.0	40S	3.4	20MS	28.2	60S	18.5	40S	46	78
1082	IPPSN2019-1082	VW1905	20.7	40S	43.4	100S	29.0	60S	9.1	20S	56	89
1083	IPPSN2019-1083	VW1906	1.7	10S	0.2	TMS	1.0	5S	6.0	20S	35	45
1084	IPPSN2019-1084	VW1907	18.0	40S	1.4	10MS	6.2	20MS	13.1	40S	35	78
1085	IPPSN2019-1085	VW1908	10.0	20S	8.0	40S	1.0	5S	19.4	60S	35	89
1086	IPPSN2019-1086	VW1909	3.5	10MS	1.5	10MS	2.8	5S	11.8	40S	35	89
1087	IPPSN2019-1087	VW1910	1.6	20MR	0.5	5MR	1.0	5S	22.3	60S	45	89
1088	IPPSN2019-1088	VW1911	3.7	10MS	6.8	40S	4.2	10S	14.4	40S	46	89
1089	IPPSN2019-1089	VW1912	17.3	40S	0.7	5MS	0.2	TS	11.8	40S	45	89
1090	IPPSN2019-1090	VW1913	9.3	40MS	13.5	60S	16.0	60S	15.5	40S	45	89
1091	IPPSN2019-1091	VW1914	2.8	20MS	1.0	5MS	0.6	5MR	20.9	60S	35	46
1092	IPPSN2019-1092	VW1915	1.7	10MS	1.4	10MS	1.0	5S	12.4	40S	35	78
1093	IPPSN2019-1093	VW1916	3.3	20MR	3.4	15MS	1.4	5S	9.6	20S	45	89
1094	IPPSN2019-1094	VW1917	4.7	10S	2.9	10MS	2.4	10S	15.5	60S	46	78
1095	IPPSN2019-1095	VW1918	5.4	10S	19.5	40S	13.0	40S	22.0	60S	46	78
1096	IPPSN2019-1096	VW1919	5.0	10S	10.1	60S*	0.2	TS	6.6	20S	46	89
1097	IPPSN2019-1097	VW1920	26.0	60S	5.3	15MS	3.2	10S	21.4	60S	45	89
1098	IPPSN2019-1098	VW1921	10.7	20S	4.0	20MS	2.6	5S	14.4	40S	46	89
1099	IPPSN2019-1099	VW1922	13.0	30S	5.7	15MS	8.6	40S	6.3	10S	46	99
1100	IPPSN2019-1100	VW1923	21.5	40S	2.2	10MS	0.2	TS	31.3	60S	45	56
1100A	INFECTOR	INFECTOR	83.3	100S	86.7	100S	80.0	100S	72.5	100S	68	99
1101	IPPSN2019-1101	VW1924	11.7	20S	8.3	20S	10.0	40S	8.7	20S	56	89
1102	IPPSN2019-1102	VW1925	4.8	20S	4.0	20MS	11.4	20S	6.6	10S	34	55
1103	IPPSN2019-1103	VW1926	19.4	40S	2.8	10MS	4.2	20S	7.6	20MS	46	89
1104	IPPSN2019-1104	VW1927	28.7	40S	4.7	15MS	0.2	TS	14.3	40S	46	89
1105	IPPSN2019-1105	VW1928	0.7	5MR	2.1	10S	18.0	40S	15.0	60S	45	89
1106	IPPSN2019-1106	VW1929	17.5	40S	4.5	10S	0.2	TS	4.8	10S	46	78
1107	IPPSN2019-1107	VW1930	1.4	10MR	0.7	5MS	0.2	TS	6.7	20S	34	35
1108	IPPSN2019-1108	VW1931	0.2	TS	0.1	TMR	15.0	40S	12.4	40S	35	48
1109	IPPSN2019-1109	VW1932	8.8	20S	17.5	40S	21.2	60S	2.4	5S	46	68
1110	IPPSN2019-1110	VW1933	3.3	20S	0.1	TMR	0.2	TS	9.1	40S	46	78
1111	IPPSN2019-1111	VW1934	59.3	100S	24.4	80S	17.8	40S	6.0	20S	35	46
1112	IPPSN2019-1112	VW1935	1.3	10MR	5.1	20MS	11.4	20S	18.8	40S	45	78
1113	IPPSN2019-1113	VW1936	1.3	10MS	1.7	10S	0.0	TR	13.4	40S	24	46
1114	IPPSN2019-1114	VW1937	5.3	20MS	1.3	5S	1.0	5S	17.5	60S	46	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
1115	IPPSN2019-1115	VW1938	2.1	10MS	4.1	20S	2.0	10S	19.5	60S	46	89
1116	IPPSN2019-1116	VW1939	6.0	20MS	9.4	40S	15.6	60S	20.5	60S	46	89
1117	IPPSN2019-1117	VW1940	4.7	40MR	4.5	20MS	12.0	60S*	2.0	5S	56	89
1118	IPPSN2019-1118	VW1941	3.1	10S	6.9	40S	12.0	60S*	19.5	60S	56	78
1119	IPPSN2019-1119	VW1942	5.7	10S	19.1	80S	1.0	10MR	8.6	40S	45	89
1120	IPPSN2019-1120	VW1943	12.0	30S	6.7	40S	10.2	20S	28.8	60S	46	89
1120A	INFECTOR	INFECTOR	86.7	100S	93.3	100S	80.0	100S	72.5	100S	68	99
1121	IPPSN2019-1121	VW1944	2.7	10MS	0.1	TR	2.2	10S	14.6	40MS	45	89
1122	IPPSN2019-1122	VW1945	8.7	20S	6.8	40S	7.8	20S	12.1	40S	25	36
1123	IPPSN2019-1123	VW1946	10.0	40S	1.4	10MS	9.0	40S	5.5	10S	46	89
1124	IPPSN2019-1124	VW1947	15.3	40S	1.5	10MS	9.0	40S	8.0	20S	45	89
1125	IPPSN2019-1125	VW1948	13.7	40S	6.9	20S	5.0	20S	13.6	40S	45	89
1126	IPPSN2019-1126	VW1949	3.7	20S	3.4	20S	8.6	40S	15.6	40S	46	89
1127	IPPSN2019-1127	VW1950	30.3	100S	9.6	30S	4.2	20S	8.8	20S	57	89
CCSHAU, Hisar												
1128	IPPSN2019-1128	P13031	42.0	100S	14.7	40S	6.2	20S	14.7	40S	46	89
1129	IPPSN2019-1129	P13294	23.7	40S	4.8	20S	0.2	TS	4.4	20S	45	89
1130	IPPSN2019-1130	P13343	19.3	40S	15.7	60S*	0.2	TS	13.4	40S	46	68
1131	IPPSN2019-1131	P13377	23.3	60S	13.4	60S*	3.0	10S	23.1	40S	45	89
1132	IPPSN2019-1132	P13517	11.8	20S	8.4	20S	3.0	10S	19.5	40S	45	78
1133	IPPSN2019-1133	P13559	18.3	40S	7.7	20MS	6.2	20S	18.1	40S	46	78
1134	IPPSN2019-1134	P13570	13.5	40MS	2.6	10S	3.2	10S	6.9	20S	45	89
1135	IPPSN2019-1135	P13580	21.5	60S	4.4	20S	3.2	10S	6.2	20S	45	78
1136	IPPSN2019-1136	P13633	20.7	60S	0.9	5MS	0.2	TS	13.3	40S	46	89
1137	IPPSN2019-1137	P13638	21.3	60S	8.7	40S	0.2	TS	13.6	40S	46	89
1138	IPPSN2019-1138	P13650	10.0	20S	3.4	20S	0.2	TS	14.9	40S	46	89
1139	IPPSN2019-1139	P13653	5.0	20MS	0.0	TR	1.0	5S	17.4	40S	46	89
1140	IPPSN2019-1140	P13666	11.5	40S	0.4	5MR	1.0	5S	7.1	20S	46	89
1140A	INFECTOR	INFECTOR	83.3	100S	83.3	100S	80.0	100S	72.5	80S	69	99
1141	IPPSN2019-1141	P13673	8.0	20S	10.1	60S*	16.2	80S*	11.9	40S	46	78
1142	IPPSN2019-1142	P13704	9.3	40MS	0.7	5MS	6.2	20MS	12.3	40S	35	78
1143	IPPSN2019-1143	P13706	20.8	40S	6.5	20MS	3.6	10S	9.7	40S	45	89
1144	IPPSN2019-1144	P13720	14.3	40S	1.6	5S	4.0	20S	6.7	20S	46	89
1145	IPPSN2019-1145	P13723	20.7	80S	15.0	60S	15.0	40S	2.6	10S	45	89
1146	IPPSN2019-1146	P13726	5.8	20S	12.0	40S	8.0	20S	3.8	20MS	45	78
1147	IPPSN2019-1147	P13738	13.7	40S	0.0	TR	6.0	20S	8.4	40S	46	68
1148	IPPSN2019-1148	P13741	24.7	60S	3.1	20MS	7.2	20S	10.1	40S	46	68
1149	IPPSN2019-1149	P13767	19.7	60S	0.6	5MR	4.2	20S	6.9	20S	46	78
1150	IPPSN2019-1150	P13809	3.3	10S	0.1	TMR	1.0	5S	12.0	40S	46	78
1151	IPPSN2019-1151	P13813	7.3	20MS	4.1	20S	0.2	TS	9.0	20S	46	89
1152	IPPSN2019-1152	P13815	8.0	20S	5.3	20S	3.0	5S	13.3	60S	56	89
1153	IPPSN2019-1153	P13820	6.4	20S	26.0	100S	5.0	10S	5.5	20S	57	89
1154	IPPSN2019-1154	P13821	14.0	30MS	5.1	10S	12.0	40S	13.4	40S	46	89
1155	IPPSN2019-1155	P13828	17.0	40S	7.1	20S	2.6	5S	5.9	10S	56	89
1156	IPPSN2019-1156	P13832	13.3	40S	2.4	10S	4.0	10S	6.1	20S	45	89
1157	IPPSN2019-1157	P13833	14.0	40S	2.8	10MS	0.2	TS	17.5	40S	36	89
1158	IPPSN2019-1158	P13835	11.3	20S	0.1	TMR	6.2	20S	6.3	20S	36	89
1159	IPPSN2019-1159	P13841	4.3	10MS	4.7	20S	0.2	TS	8.6	20S	46	89
1160	IPPSN2019-1160	P13851	2.5	10MS	0.1	TMR	5.0	10S	16.4	40S	45	89
1160A	INFECTOR	INFECTOR	90.0	100S	86.7	100S	80.0	100S	70.0	80S	68	99
1161	IPPSN2019-1161	P13854	15.7	40S	1.4	10MS	12.0	60S*	19.0	60S	45	89
1162	IPPSN2019-1162	P13855	3.8	10MS	0.1	TR	0.2	TS	26.3	40S	45	78
1163	IPPSN2019-1163	P13856	6.0	20S	2.5	10S	26.0	40S	9.1	20S	46	89
1164	IPPSN2019-1164	P13858	5.0	20MS	6.1	40MS	7.0	20S	10.5	20S	45	89
1165	IPPSN2019-1165	P13861	2.7	10MS	0.4	5MR	11.0	20S	13.1	40S	45	89
1166	IPPSN2019-1166	P13908	10.7	40S	1.8	10MS	4.2	20S	9.6	20S	46	89
1167	IPPSN2019-1167	P13348	14.0	60S	2.8	10MS	14.0	60S	15.8	40S	46	89
1168	IPPSN2019-1168	P13537	12.7	40S	4.7	10S	17.0	60S	14.4	60S	46	89
1169	IPPSN2019-1169	P13543	12.7	40S	1.1	10MR	0.2	TS	9.4	20S	46	89
1170	IPPSN2019-1170	P13582	13.0	40S	2.7	10MS	0.2	TS	19.4	40S	46	89
1171	IPPSN2019-1171	P13644	19.0	60S	2.4	10MS	18.0	40S	11.0	40S	45	89
1172	IPPSN2019-1172	P13686	13.3	40S	3.4	10MS	13.0	20S	14.5	40S	46	89
1173	IPPSN2019-1173	P13811	14.0	40S	4.9	20MS	2.0	10S	7.8	20S	45	89
1174	IPPSN2019-1174	P13816	11.0	40S	0.4	5MR	0.2	TS	9.8	20S	45	89
1175	IPPSN2019-1175	P12206	22.5	60S	22.7	60S	18.6	40S	16.5	60S	46	78
1176	IPPSN2019-1176	P12368	33.0	60S	19.4	80S	7.8	20S	14.4	40S	46	89
1177	IPPSN2019-1177	P13614	18.2	60S	8.7	40S	4.0	10S	14.0	40S	47	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
1178	IPPSN2019-1178	P13779	6.8	20MS	1.4	5MS	0.2	TS	9.1	40S	46	89
1179	IPPSN2019-1179	P13787	12.5	40S	2.0	10MS	0.0	TR	23.0	40S	46	78
1180	IPPSN2019-1180	P13789	13.0	30MS	17.0	80S	1.0	5S	34.8	60S	46	89
1180A	INFECTOR	INFECTOR	83.3	100S	83.3	100S	76.0	80S	72.5	80S	68	99
1181	IPPSN2019-1181	P13834	6.3	20S	3.3	20S	0.2	TS	11.7	40S	46	78
1182	IPPSN2019-1182	P13839	20.4	60S	0.1	TR	4.2	20S	12.2	40S	45	89
1183	IPPSN2019-1183	P13965	2.4	20MR	0.7	10MR	1.8	5S	1.8	5S	45	89
1184	IPPSN2019-1184	P13966	6.7	20MS	0.0	TR	5.0	20S	10.5	40S	46	78
1185	IPPSN2019-1185	P8213	27.7	100S	3.1	10S	1.0	5MS	2.5	5S	45	68
1186	IPPSN2019-1186	P8217	25.4	100S	2.4	10S	0.2	TS	4.1	10MS	56	78
1187	IPPSN2019-1187	P8223	27.3	100S	3.4	20S	0.2	TS	3.4	10S	45	89
Nuziveedu Seeds												
1188	IPPSN2019-1188	NWS2128	47.7	100S	12.8	60S*	2.0	10S	27.0	60S	46	89
1189	IPPSN2019-1189	NWS2194	8.2	20MS	0.7	5MS	9.0	20S	28.8	60S	46	89
BMZ - Breeding 2019-20												
1190	IPPSN2019-1190	BISA-01	13.1	40S	2.1	10MS	0.2	TS	11.9	40S	46	89
1191	IPPSN2019-1191	BISA-02	11.3	20S	1.6	5S	0.0	0	7.2	20S	46	89
1192	IPPSN2019-1192	BISA-03	4.5	10S	2.7	20MS	2.8	10MS	12.4	40S	46	78
1193	IPPSN2019-1193	BISA-04	8.7	20S	0.1	TMR	0.2	TS	8.1	20MS	35	78
1194	IPPSN2019-1194	BISA-05	4.7	20S	4.2	20MS	1.8	5S	10.6	20S	46	89
1195	IPPSN2019-1195	BISA-06	7.7	20MS	0.8	10MR	2.8	10S	11.1	20S	45	89
1196	IPPSN2019-1196	BISA-07	17.0	40S	2.7	20MS	4.4	20S	6.5	10S	45	89
1197	IPPSN2019-1197	BISA-08	5.0	20MS	2.7	20MS	1.2	5S	2.9	10S	36	89
1198	IPPSN2019-1198	BISA-09	31.3	60S	1.7	10MS	0.0	0	11.5	40S	46	89
1199	IPPSN2019-1199	BISA-10	17.7	40S	1.4	10MS	0.0	0	15.9	40S	46	89
1200	IPPSN2019-1200	CSW217	1.4	5MS	0.1	TR	0.2	TS	6.7	20S	45	68
1200A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	76.0	80S	72.5	100S	79	99
1201	IPPSN2019-1201	CSW219	15.3	40MS	2.1	10MS	0.2	TS	17.6	40S	46	89
1202	IPPSN2019-1202	CSW220	14.0	40S	3.5	20MS	1.0	5S	5.6	20S	34	47
1203	IPPSN2019-1203	CSW221	12.3	40MS	13.2	20S	6.8	20S	3.1	10S	47	89
1204	IPPSN2019-1204	CSW222	11.8	40S	4.5	10S	2.8	10S	16.8	40S	46	78
1205	IPPSN2019-1205	CSW223	15.3	40S	4.1	20MS	2.8	10S	8.3	20S	46	89
1206	IPPSN2019-1206	HI 1636	1.5	10MS	0.0	TR	9.0	40S	50.5	80S	46	89
1207	IPPSN2019-1207	HI 1637	1.0	5MS	0.0	TR	0.2	TS	45.0	60S	46	89
1208	IPPSN2019-1208	HI 1641	3.7	20MS	0.1	TR	4.2	20S	53.1	80S	46	89
1209	IPPSN2019-1209	HI 1647	8.2	20MS	6.2	20MS	2.0	10S	23.1	60S	47	89
1210	IPPSN2019-1210	BWL 5373	9.6	20MS	16.0	60S	1.8	10MS	4.1	10S	45	89
1211	IPPSN2019-1211	BWL 6893	12.7	40S	3.8	20S	1.0	5MS	18.0	40S	46	78
1212	IPPSN2019-1212	BWL 7466	10.7	40S	2.1	10MS	2.8	10S	13.2	40S	45	78
1213	IPPSN2019-1213	BWL 8166	6.9	20MS	1.5	10MS	1.8	5S	2.5	20S	46	89
1214	IPPSN2019-1214	BWL 8173	31.3	60S	2.3	10MS	0.2	TS	2.3	10S	46	89
1215	IPPSN2019-1215	BWL 8226	5.8	20MS	4.5	20MS	2.0	10S	12.2	40S	47	89
1216	IPPSN2019-1216	BWL 8231	18.5	40MS	2.7	20MS	2.8	10S	7.1	40S	46	89
1217	IPPSN2019-1217	BWL 8234	22.0	40S	5.8	40MS	1.0	5MS	3.1	10S	46	89
1218	IPPSN2019-1218	BWL 8858	12.8	30S	4.1	20MS	1.0	5MS	13.8	40S	46	89
1219	IPPSN2019-1219	BWL 8856	31.1	60S	4.2	10MS	0.2	TS	11.5	20S	47	89
1220	IPPSN2019-1220	WH 1288	4.9	20S	1.5	10MS	4.2	20S	19.0	40S	46	89
1220A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	76.0	80S	75.0	100S	78	99
1221	IPPSN2019-1221	WH 1289	27.7	60S	2.1	10MS	1.0	5S	20.3	40S	46	89
1222	IPPSN2019-1222	WH 1290	6.8	20MS	4.4	10S	1.0	5S	16.7	40S	46	89
1223	IPPSN2019-1223	WH 1291	15.3	40MS	20.4	100S*	1.4	5S	17.6	40S	46	89
1224	IPPSN2019-1224	BMZ-K-1901	10.5	20MS	4.1	20S	1.0	5MS	21.9	60S	46	89
1225	IPPSN2019-1225	BMZ-K-1902	5.0	20MS	0.2	TMS	0.8	5MS	21.9	40S	46	89
1226	IPPSN2019-1226	BMZ-K-1903	4.1	10MS	0.2	TMR	0.2	TS	14.9	40S	45	89
1227	IPPSN2019-1227	BMZ-K-1904	11.2	40S	2.2	10MS	2.0	10S	11.8	30MS	46	89
1228	IPPSN2019-1228	BMZ-K-1905	6.0	20S	1.4	10MS	1.4	5S	8.7	20S	46	89
1229	IPPSN2019-1229	BMZ-K-1906	8.7	20MS	1.4	10MS	4.8	20S	12.3	40S	46	78
1230	IPPSN2019-1230	BMZ-K-1907	11.7	40S	10.2	60S*	4.8	20S	11.7	40S	45	89
1231	IPPSN2019-1231	UAS BW 11404	12.7	40MS	8.8	40S	6.0	20S	30.4	60S	45	89
1232	IPPSN2019-1232	UAS BW 11454	5.8	20MS	1.4	5MS	6.0	20S	11.4	40S	46	89
1233	IPPSN2019-1233	UAS428	5.4	20S	3.0	10MS	9.4	40S	4.8	10S	36	56
JNKVV, Jabalpur												
1234	IPPSN2019-1234	MP3538	19.5	60S	5.0	20S	14.0	60S	30.7	60S	46	89
1235	IPPSN2019-1235	MP3539	11.0	40MS	36.0	80S	34.0	40S	47.5	80S	56	89
1236	IPPSN2019-1236	MP3540	16.7	40S	11.4	40S	5.2	10S	39.4	60S	46	89
1237	IPPSN2019-1237	MP3541	2.3	20MR	0.7	5MS	0.2	TS	36.3	60S	46	89
1238	IPPSN2019-1238	MP3542	9.3	20S	4.9	20MS	9.0	20S	11.1	40S	46	78

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
1239	IPPSN2019-1239	MP3543	22.8	100S	11.8	60S*	9.2	20S	33.1	80S	57	89
1240	IPPSN2019-1240	MP3544	13.4	40S	14.4	60S	7.4	20S	35.5	80S	46	78
1240A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	80.0	100S	75.0	100S	68	99
1241	IPPSN2019-1241	MP3545	6.2	20S	9.9	40S	4.0	20S	6.5	20S	45	78
1242	IPPSN2019-1242	MP3546	10.7	40MS	1.8	10S	2.0	10S	10.9	40S	46	89
1243	IPPSN2019-1243	MP3547	13.7	40MS	29.0	60S	21.2	40S	55.6	80S	56	89
1244	IPPSN2019-1244	MP3536	2.0	20MR	1.4	10MS	0.2	TS	38.8	60S	46	89
1245	IPPSN2019-1245	MP3537	40.0	80S	4.8	20MS	6.0	20S	47.6	80S	46	89
1246	IPPSN2019-1246	MP3525	28.5	80S	15.4	60S	0.2	TS	15.1	40S	46	78
1247	IPPSN2019-1247	MP3551	19.3	60S	5.4	20MS	4.2	10S	31.3	60S	46	78
1248	IPPSN2019-1248	MP3552	3.6	10S	7.4	20S	4.0	10S	18.3	40S	46	78
Sal/Alk nursery												
1249	IPPSN2019-1249	RWP-2019-26	6.4	20MS	5.3	10S	8.8	20S	20.1	60S	47	89
1250	IPPSN2019-1250	RWP-2019-27	8.8	20S	8.8	40S	4.8	10S	28.6	80S	46	89
1251	IPPSN2019-1251	KRL-1901	18.3	60S	12.1	40S	15.0	20S	42.5	80S	46	89
1252	IPPSN2019-1252	KRL-1902	7.1	30S	24.0	40S	40.2	60S	40.1	80S	46	89
1253	IPPSN2019-1253	KRL-1903	16.7	40S	5.4	20S	14.2	40S	37.5	80S	45	78
1254	IPPSN2019-1254	KRL-1904	7.1	20MS	2.8	10MS	12.6	60S*	42.3	80S	46	89
1255	IPPSN2019-1255	KRL-1905	5.7	20MS	8.1	20S	18.0	40S	48.0	80S	46	89
1256	IPPSN2019-1256	KRL-1906	30.0	60S	0.1	TR	5.0	10S	45.5	80S	45	78
1257	IPPSN2019-1257	KRL-1907	4.5	10MS	11.7	15MS	4.2	20S	56.0	80S	46	89
1258	IPPSN2019-1258	KRL-1908	3.2	10S	4.0	20MS	6.2	20S	32.5	60S	46	89
1259	IPPSN2019-1259	KRL-1909	25.7	60S	1.4	5MS	8.0	20S	27.6	60S	45	89
1260	IPPSN2019-1260	KRL-1910	6.3	20MS	4.8	20S	6.0	20S	30.1	60S	46	89
1260A	INFECTOR	INFECTOR	86.7	100S	86.7	100S	80.0	100S	72.5	100S	68	99
1261	IPPSN2019-1261	WH1352	16.2	40S	1.4	10MS	2.0	10S	11.2	40S	46	89
1262	IPPSN2019-1262	WH1351	9.7	20S	3.0	20MS	1.4	5S	3.4	10S	35	89
1263	IPPSN2019-1263	RWP-2019-24	3.8	10S	0.1	TMR	4.8	10S	7.5	20S	46	89
1264	IPPSN2019-1264	RWP-2019-25	4.1	20MS	0.4	5MR	1.0	5MS	3.1	10S	46	89
1265	IPPSN2019-1265	DWAP-1923	3.5	20MS	3.4	20MS	3.0	10S	6.7	10S	46	89
1266	IPPSN2019-1266	DWAP-1924	13.0	40S	0.9	5S	0.0	0	16.4	40S	35	68
1267	IPPSN2019-1267	BST-SAL-1910	2.8	20MS	0.1	TR	2.0	10S	40.0	80S	46	89
1268	IPPSN2019-1268	SANSR-6	6.5	20S	1.3	5MS	9.0	20S	30.1	60S	46	78
1269	IPPSN2019-1269	SANSR-7	6.0	20S	1.8	10S	16.0	40S	20.0	40S	46	78
1270	IPPSN2019-1270	NEPZ-18-51	12.0	40MS	19.7	60S	17.8	40S	22.4	60S	36	78
1271	IPPSN2019-1271	NEPZ-18-25	4.9	20S	0.1	TR	3.2	10S	14.3	40S	46	78
1272	IPPSN2019-1272	LBP-18-23	8.0	20S	18.0	40S	9.0	20S	18.4	60S	45	78
1273	IPPSN2019-1273	KRL210 (C)	33.0	60S	16.0	40S	6.0	10S	28.8	80S	46	89
1274	IPPSN2019-1274	KRL 19 (C)	17.3	40S	32.0	80S	9.0	20S	45.0	80S	46	89
1275	IPPSN2019-1275	NW-7081	10.3	40S	0.1	TMR	3.0	10S	27.8	60S	46	89
1276	IPPSN2019-1276	NW-7098	28.0	60S	4.8	20S	0.2	TS	13.0	40S	45	78
1277	IPPSN2019-1277	K-1809	11.7	20S	1.6	10MS	0.2	TS	22.6	60S	46	78
1278	IPPSN2019-1278	K-1805	4.3	10S	8.4	30S	4.2	10S	14.8	40S	36	78
WBN/QCSN												
1279	IPPSN2019-1279	HD3304	16.3	40MS	6.1	20S	3.2	10S	6.4	20S	46	78
1280	IPPSN2019-1280	QLD112	15.2	40S	22.3	80S	5.0	10S	6.6	20S	45	89
1280A	INFECTOR	INFECTOR	76.7	100S	90.0	100S	76.0	80S	72.5	100S	78	99
1281	IPPSN2019-1281	GW2017-825	8.7	20MS	2.7	10MS	0.6	5MR	52.5	80S	57	89
1282	IPPSN2019-1282	AR-15-15	29.0	80S	40.0	80S	12.8	60S*	31.3	80S	57	89
1283	IPPSN2019-1283	BWL5429	6.4	20S	11.4	60S*	4.8	20S	6.9	20S	46	89
1284	IPPSN2019-1284	QBP-18-14	6.2	20S	0.4	5MR	6.0	20S	15.9	60S	46	78
1285	IPPSN2019-1285	QBP-18-15	10.7	40S	1.4	10MS	2.0	10S	22.8	60S	46	68
1286	IPPSN2019-1286	MP3533	6.5	20S	25.0	60S	28.0	40S	47.5	80S	46	78
1287	IPPSN2019-1287	GW-2018-934 (d)	1.2	10MR	11.4	60S*	1.0	5S	14.7	80S	46	89
1288	IPPSN2019-1288	GW-2018-936 (d)	2.2	10MR	0.1	TR	0.2	TS	2.4	10S	47	89
1289	IPPSN2019-1289	KA1821	11.7	40S	2.7	10MS	10.2	20S	17.0	40S	35	78
1290	IPPSN2019-1290	BWL-8035	5.4	20MS	0.4	5MR	0.2	TS	19.6	60S	35	78
1291	IPPSN2019-1291	NIAW-3889	5.1	20MS	0.5	5MR	0.2	TS	26.5	60S	45	78
1292	IPPSN2019-1292	MP3520	14.2	40S	18.1	60S	12.2	40S	31.1	60S	45	89
1293	IPPSN2019-1293	MP3522	6.7	20MS	2.1	10MS	1.0	5MS	15.8	40S	45	78
1294	IPPSN2019-1294	QBI-19 - 11	7.3	20MS	2.8	20MS	0.2	TS	21.5	40S	46	89
1295	IPPSN2019-1295	QBI-19 - 22	8.7	30S	7.7	30S	2.8	10MS	23.8	60S	36	78
1296	IPPSN2019-1296	QBI-19 - 08	14.3	40MS	12.0	40MS	5.4	20MS	25.1	60S	46	78
1297	IPPSN2019-1297	QBI-19 - 16	10.0	20S	14.0	60S	3.4	10S	28.8	80S	46	89
1298	IPPSN2019-1298	QBI-19 - 09	2.9	10MS	3.5	20S	3.0	10MS	20.2	40S	46	89
1299	IPPSN2019-1299	QBI-19 - 14	6.1	20MS	17.4	80S	1.4	5S	27.8	60S	45	99
1300	IPPSN2019-1300	QBI-19 - 13	8.0	20S	1.6	5S	8.2	40S	32.5	60S	46	89

IPPSN No.	Entry code	Entry	Stem rust		Leaf rust (South)		Leaf rust (North)		Yellow rust		Foliar blight	
			ACI	HS	ACI	HS	ACI	HS	ACI	HS	Avg.	HS
1300A	INFECTOR	INFECTOR	83.3	100S	90.0	100S	76.0	80S	75.0	100S	68	99
1301	IPPSN2019-1301	QBI-19 - 23	4.8	20MS	16.8	60S	2.4	10S	31.4	60S	35	56
1302	IPPSN2019-1302	QBI-19 - 15	5.4	20MS	11.7	40S	1.3	5S	26.4	60S	46	89
1303	IPPSN2019-1303	QBI-19 - 10	4.7	10MS	1.4	5MS	3.8	10S	26.1	60S	45	89
1304	IPPSN2019-1304	BWL- 7827	7.0	20S	0.1	TR	2.0	10S	12.1	40S	46	89
1305	IPPSN2019-1305	BWL- 7829	6.7	10S	2.0	10MS	0.2	TS	5.0	10S	46	89
1306	IPPSN2019-1306	BWL- 8875	16.2	40S	3.7	10S	3.8	10S	16.1	60S	46	89
1307	IPPSN2019-1307	BWL- 8878	14.4	40S	11.4	60S*	0.6	5MR	15.6	60S	46	78
1308	IPPSN2019-1308	BWL- 8879	20.0	40S	2.8	20MS	1.0	5MS	7.8	20S	46	89
1309	IPPSN2019-1309	BWL- 8880	6.2	20MS	2.8	20MS	1.8	5S	2.3	5S	46	89
1310	IPPSN2019-1310	BWL- 8881	4.7	20MS	2.7	20MS	0.2	TS	1.4	10MS	46	89
1311	IPPSN2019-1311	BWL- 8884	4.6	10MS	3.5	20MS	0.0	0	1.3	5S	46	89
1312	IPPSN2019-1312	GW-A-2019-957	4.4	20MS	0.1	TR	1.0	5S	21.4	60S	56	99
1313	IPPSN2019-1313	GW-A-2019-958	4.0	20MR	0.1	TMR	4.2	20S	35.4	60S	45	99
1314	IPPSN2019-1314	KA-1916	35.5	80S	38.1	100S	36.0	60S	36.4	80S	56	99
1315	IPPSN2019-1315	KA-1917	43.3	80S	24.7	40S	40.0	60S	37.4	80S	46	89
1316	IPPSN2019-1316	KA-1935	13.4	40S	0.1	TR	13.0	60S*	29.3	60S	46	89
1317	IPPSN2019-1317	BNSR-4	8.3	20MS	9.0	20S	32.0	60S	12.8	40S	46	89
1318	IPPSN2019-1318	BST-2019-01	6.7	20S	7.7	20MS	2.0	10S	12.6	40S	46	99
1319	IPPSN2019-1319	BST-2019-02	6.7	20MS	16.0	40S	12.0	40S	28.4	80S	46	89
1320	IPPSN2019-1320	8th HPYT431	13.7	20S	4.7	20S	0.2	TS	17.5	40S	45	78
1320A	INFECTOR	INFECTOR	86.7	100S	90.0	100S	80.0	100S	72.5	80S	68	99
1321	IPPSN2019-1321	8th HPYT443	24.3	40S	6.0	20S	0.2	TS	9.5	20S	46	89
1322	IPPSN2019-1322	2nd HPYT429	39.0	80S	13.1	40S	16.2	40S	8.0	20S	46	89
1323	IPPSN2019-1323	QLD-116	1.7	5MS	2.7	20MS	0.2	TS	11.4	20S	46	89
1324	IPPSN2019-1324	UASDW30561	4.4	10S	0.1	TR	0.2	TS	3.0	10S	56	89

Abbreviations: ACI = Average Coefficient of Infection, HS = Highest Score, Avg. = Mean, *Indicates high rust score (more than 40S) at one location only.