

Association of leaf chlorophyll content with the stay-green trait and grain yield in wheat grown under heat stress conditions

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Electronic Supplementary Material (ESM)

The authors are fully responsible for both the content and the formal aspects of the electronic supplementary material. No editorial adjustments were made.

<https://doi.org/10.17221/45/2021-CJGPB>

Table S1. List of genotypes and their source along with the check entries (C) tested in the year 2016–2017 and 2017–2018

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
1	DWR-F7-36-2-1	IWBR, Karnal	1	W X S-F7-12-10	IWBR, Karnal
2	DWR-F7-80-1	IWBR, Karnal	2	W X S-F7-27-2	IWBR, Karnal
3	SSN-F6-133-1443-8	IWBR, Karnal	3	W X S-F7-4-1-1	IWBR, Karnal
4	DWR-F6-8-52-1	IWBR, Karnal	4	W X S-F7-11-4	IWBR, Karnal
5	SSN-F5-56-7	IWBR, Karnal	5	W X S-F7-34-1	IWBR, Karnal
6	DWR-F6-30-1	IWBR, Karnal	6	W X S-F7-7-4	IWBR, Karnal
7	DWR-F6-44-6	IWBR, Karnal	7	W X S-F7-12-8	IWBR, Karnal
8	DWR-F6-49-4	IWBR, Karnal	8	W X S-F7-12-14	IWBR, Karnal
9	DWR-F7-76-79-5	IWBR, Karnal	9	W X S-F7-11-5	IWBR, Karnal
10	DWR-F6-17-1	IWBR, Karnal	10	W X S-F7-30-1	IWBR, Karnal
11	SSN-F6-1447-1	IWBR, Karnal	11	HD 2967 (C)	IARI, New Delhi
12	SSN-F5-57-8	IWBR, Karnal	12	W X S-F7-24-3	IWBR, Karnal
13	SSN-F5-60-4	IWBR, Karnal	13	W X S-F7-1-1-1	IWBR, Karnal
14	SSN-F5-236-56-8	IWBR, Karnal	14	W X S-F7-13-5	IWBR, Karnal
15	NHP-F6-172-85-1	IWBR, Karnal	15	W X S-F7-6-2	IWBR, Karnal
16	SSN-F5-59-3	IWBR, Karnal	16	W X S-F7-1-2-1	IWBR, Karnal
17	SSN-F5-25-1	IWBR, Karnal	17	W X S-F7-12-16	IWBR, Karnal
18	SW-310	Sabour	18	W X S-F7-6-3	IWBR, Karnal
19	SSN-F6-1430-1	IWBR, Karnal	19	W X S-F7-4-3-1	IWBR, Karnal
20	SSN-F5-62-2	IWBR, Karnal	20	W X S-F7-7-2	IWBR, Karnal
21	NHP-F6-190-131-1	IWBR, Karnal	21	W X S-F7-13-6	IWBR, Karnal
22	NHP-F6-20-164-1	IWBR, Karnal	22	W X S-F7-12-15	IWBR, Karnal
23	SSN-F5-238-58-2	IWBR, Karnal	23	W X S-F7-13-7	IWBR, Karnal
24	SW304	Sabour	24	W X S-F7-27-3	IWBR, Karnal
25	F7-19-1	Sabour	25	W X S-F7-12-6	IWBR, Karnal
26	SSN-F6-144-1446-1	IWBR, Karnal	26	W X S-F7-32-1	IWBR, Karnal
27	SSN-F6-144-1446-2	IWBR, Karnal	27	W X S-F7-12-7	IWBR, Karnal
28	SSN-F6-144-1446-3	IWBR, Karnal	28	W X S-F7-12-13	IWBR, Karnal
29	SSN-F6-112-1428-8	IWBR, Karnal	29	W X S-F7-8-2	IWBR, Karnal
30	SSN-F6-1446-3-1	IWBR, Karnal	30	W X S-F7-33-1	IWBR, Karnal
31	SW152	Sabour	31	W X S-F7-1-3-1	IWBR, Karnal
32	SSN-F6-1434-2-1	IWBR, Karnal	32	W X S-F7-10-1	IWBR, Karnal
33	NHP-F6-176-98-2	IWBR, Karnal	33	W X S-F7-12-1	IWBR, Karnal
34	SW429	Sabour	34	W X S-F7-13-1	IWBR, Karnal
35	NHP-F6-121-2	IWBR, Karnal	35	W X S-F7-5-1	IWBR, Karnal
36	SSN-F5-59-6	IWBR, Karnal	36	W X S-F7-7-1	IWBR, Karnal
37	SSB-F6-126-1441-3	IWBR, Karnal	37	W X S-F7-4-2	IWBR, Karnal
38	SSN-F6-1428-3-2	IWBR, Karnal	38	W X S-F7-17-2	IWBR, Karnal
39	SSN-F6-1427-1-9	IWBR, Karnal	39	W X S-F7-16-2	IWBR, Karnal
40	SW138	Sabour	40	W X S-F7-28-2	IWBR, Karnal
41	SSN-F5-1438-1-2	IWBR, Karnal	41	DWR-F7-27-1	IWBR, Karnal
42	SSN-F6-1443-1-7	IWBR, Karnal	42	DWR-F7-30-1	IWBR, Karnal
43	SSN-F6-1427-11	IWBR, Karnal	43	DWR-F7- 37-4	IWBR, Karnal

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Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
44	SSN-F6-1428-2-2	IIWBR, Karnal	44	DWR-F7-10-7	IIWBR, Karnal
45	SSN-F7-1404-1-1	IIWBR, Karnal	45	DWR-F7-37-2	IIWBR, Karnal
46	F7-16-2	Sabour	46	DWR-F7-13-1	IIWBR, Karnal
47	SSN-F5-254-65-1	IIWBR, Karnal	47	DWR-F7-13-4	IIWBR, Karnal
48	F6-30-1	Sabour	48	DWR-F7-35-4-1	IIWBR, Karnal
49	SSN-F6-128-1441-7	IIWBR, Karnal	49	DWR-F7-82-2	IIWBR, Karnal
50	NHP-F6-192-133-2	IIWBR, Karnal	50	DWR-F7-8-51-1	IIWBR, Karnal
51	F6-11-1-3	Sabour	51	DWR-F7-30-2	IIWBR, Karnal
52	SSN-F5-240-58-3	IIWBR, Karnal	52	DWR-F7-45-6	IIWBR, Karnal
53	SW537	Sabour	53	DWR-F7-50-4	IIWBR, Karnal
54	F8 39-2	Sabour	54	DWR-F7-17-2	IIWBR, Karnal
55	SW115	Sabour	55	DWR-F7-22-4	IIWBR, Karnal
56	SAB-F6-14-7	Sabour	56	DWR-F7-51-2	IIWBR, Karnal
57	SAB-F6-15-1	Sabour	57	DWR-F7-2-3	IIWBR, Karnal
58	SAB-F6-15-4	Sabour	58	DWR-F7-10-1	IIWBR, Karnal
59	SAB-F6-15-2	Sabour	59	DWR-F7-F7-36-3	IIWBR, Karnal
60	SAB-F6-14-3	Sabour	60	DWR-F7-F7-2-4	IIWBR, Karnal
61	SSN-F5-208-1-1	IIWBR, Karnal	61	DWR-F7-45-1	IIWBR, Karnal
62	SSN-F5-244-37-1	IIWBR, Karnal	62	DWR-F7-22-2	IIWBR, Karnal
63	SW268	Sabour	63	DWR-F7-19-7	IIWBR, Karnal
64	SW423	Sabour	64	DWR-F7-24-4	IIWBR, Karnal
65	SSN-F7-29-1339-3-2	IIWBR, Karnal	65	DWR-F7-35-6-1	IIWBR, Karnal
66	SAB-F6-93-7-1	Sabour	66	DWR-F7-30-8-1	IIWBR, Karnal
67	SSN-F5-243-59-2	IIWBR, Karnal	67	DWR-F7-30-8-1	IIWBR, Karnal
68	SW396	Sabour	68	DWR-F7-35-5-1	IIWBR, Karnal
69	SW 426	Sabour	69	DWR-F7-30-5-1	IIWBR, Karnal
70	SSN-F7-32-1342-3-1	IIWBR, Karnal	70	DWR-F7-35-11-1	IIWBR, Karnal
71	HPYT 446	CIMMYT	71	DWR-F7-23-2	IIWBR, Karnal
72	SATYT-7	CIMMYT	72	DWR-F7-10-3	IIWBR, Karnal
73	SAWYT 15	CIMMYT	73	DWR-F7-35-4-1	IIWBR, Karnal
74	DWR-F7-84-101-1	IIWBR, Karnal	74	DWR-F7-30-7-1	IIWBR, Karnal
75	SSN-F5-219-26-4	IIWBR, Karnal	75	DWR-F7-41-2	IIWBR, Karnal
76	NHP-F5-154-21-1	IIWBR, Karnal	76	DWR F7 36-4	IIWBR, Karnal
77	DWR-F6-116-1	IIWBR, Karnal	77	DWR-F7-48-1	IIWBR, Karnal
78	NHP-F6-103-3	IIWBR, Karnal	78	DWR-F7-10-2	IIWBR, Karnal
79	NHP-F6-21-1	IIWBR, Karnal	79	DWR-F7-35-2-1	IIWBR, Karnal
80	NHP-F6-137-1-2	IIWBR, Karnal	80	DWR-F7-36-1	IIWBR, Karnal
81	NHP-F6-89-1	IIWBR, Karnal	81	DWR-F7-47-2	IIWBR, Karnal
82	NHP-F6-151-2	IIWBR, Karnal	82	DWR-F7-47-1	IIWBR, Karnal
83	F6-16-20-48-3	Sabour	83	DWR-F7-7-1	IIWBR, Karnal
84	SSN-F6-1429-4	IIWBR, Karnal	84	DWR-F7-19-3	IIWBR, Karnal
85	NHP-F6-140-2	IIWBR, Karnal	85	DWR-F7-35-12	IIWBR, Karnal
86	SW 176	Sabour	86	DWR-F7-40-5	IIWBR, Karnal

Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
87	DWR-F6-32-2	IIWBR, Karnal	87	DWR-F7-41-5	IIWBR, Karnal
88	SSN-F5-36-3	IIWBR, Karnal	88	DWR-F7-29-3	IIWBR, Karnal
89	DWR-F7-74-79-2	IIWBR, Karnal	89	DWR-F7-32-2	IIWBR, Karnal
90	NHP-F6-136-3	IIWBR, Karnal	90	DWR-F7-19-2	IIWBR, Karnal
91	DWR-F7-24-2	IIWBR, Karnal	91	DWR-F7-45-2	IIWBR, Karnal
92	NH-F7-41-1	IIWBR, Karnal	92	DWR-F7- 17-4	IIWBR, Karnal
93	NHP-F6-86-2	IIWBR, Karnal	93	DWR-F7-37-3	IIWBR, Karnal
94	NHP-F6-121-3	IIWBR, Karnal	94	DWR-F7-3-2	IIWBR, Karnal
95	NHP-F6-53-2	IIWBR, Karnal	95	DWR-F7-13-2	IIWBR, Karnal
96	NHP-F6-99-3	IIWBR, Karnal	96	DWR-F7-3-1	IIWBR, Karnal
97	NHP-F6-135-1	IIWBR, Karnal	97	DWR-F7-30-4	IIWBR, Karnal
98	SW 494	Sabour	98	BRW3708 (C)	Sabour
99	NH-F7-74-1	IIWBR, Karnal	99	DWR-F7-13-3	IIWBR, Karnal
100	SSN-16-17-141-1445-4	IIWBR, Karnal	100	DWR-F7-12-1	IIWBR, Karnal
101	SSN-F6-1430-1	IIWBR, Karnal	101	DWR-F7-53-2	IIWBR, Karnal
102	SSN-F5-31-1	IIWBR, Karnal	102	DWR-F7-36-2	IIWBR, Karnal
103	SW 378	Sabour	103	DWR-F7-45-5	IIWBR, Karnal
104	SW 533	Sabour	104	DWR-F7-22-2	IIWBR, Karnal
105	SW 331	Sabour	105	DWR-F7-35-14	IIWBR, Karnal
106	SSN-F5-59-3	IIWBR, Karnal	106	DWR-F7-30-6-1	IIWBR, Karnal
107	SW 271	Sabour	107	DWR-F7-10-5	IIWBR, Karnal
108	SSN-F5-56-7	IIWBR, Karnal	108	W X S-F7-2-2	IIWBR, Karnal
109	NHP-F5-168-62-1	IIWBR, Karnal	109	DWR-F7-12-5	IIWBR, Karnal
110	SSN-F5-221-31-1	IIWBR, Karnal	110	DWR-F7-46-1	IIWBR, Karnal
111	HYTP-42-9	CIMMYT	111	DWR-F7-41-6	IIWBR, Karnal
112	SSN-F5-250-61-4	IIWBR, Karnal	112	DWR-F77-23-4	IIWBR, Karnal
113	SSN-F5-245-59-4	IIWBR, Karnal	113	DWR-F77-2-1	IIWBR, Karnal
114	SSN-F5-117-1433-1	IIWBR, Karnal	114	DWR-F7-35-2-1	IIWBR, Karnal
115	DWR-F7-73-78-1	IIWBR, Karnal	115	DWR-F7-35-13	IIWBR, Karnal
116	SSN-F6-149-152-1	IIWBR, Karnal	116	DWR-F7-9-2	IIWBR, Karnal
117	F6-23-3	Sabour	117	W X S-F7-11-2	IIWBR, Karnal
118	SSN-F4-229-414	IIWBR, Karnal	118	SSN-F 6-33-3	IIWBR, Karnal
119	SW 163	Sabour	119	SSN-F 6-46-1	IIWBR, Karnal
120	W X S-F6-12-11	CIMMYT	120	K1006 (C)	CSAUA&T, Kanpur
121	NHP-F6-169-63-1	IIWBR, Karnal	121	SSN-F6-41-3	IIWBR, Karnal
122	F6-17-1	Sabour	122	SSN-F6-60-2	IIWBR, Karnal
123	DWR-F6-37-3	IIWBR, Karnal	123	SSN-F6-59-2	IIWBR, Karnal
124	SSN-F7-37-1356-1-1	IIWBR, Karnal	124	SSN-F6-59-4	IIWBR, Karnal
125	F6-19-2	Sabour	125	SSN-F6-56-7	IIWBR, Karnal
126	F6-28-2	Sabour	126	SSN-F6-51-6-2	IIWBR, Karnal
127	SW 463	Sabour	127	SSN-F6-61-5	IIWBR, Karnal
128	SSN-F5-249-61-2	IIWBR, Karnal	128	SSN-F7-1447-2	IIWBR, Karnal
129	DWR-F7-72-76-1	IIWBR, Karnal	129	SSN-F6-56-8	IIWBR, Karnal

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Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
130	SSN-F7-40-1367-4	IWBR, Karnal	130	SSN-F6-61-6	IWBR, Karnal
131	DWR-F7-83-98-2	IWBR, Karnal	131	SSN-F6-26-4	IWBR, Karnal
132	DWR-F7-88-112-3	IWBR, Karnal	132	SSN-F6-4-1	IWBR, Karnal
133	DWR-F6-40-5	IWBR, Karnal	133	SSN-F6-37-1	IWBR, Karnal
134	W X S-F6-12-5	IWBR, Karnal	134	SSN-F6-59-7	IWBR, Karnal
135	F6-13-3	Sabour	135	SSN-F6-61-4	IWBR, Karnal
136	SSN-F6-121-1438-1	IWBR, Karnal	136	SSN-F6-59-3	IWBR, Karnal
137	K 0307	CSAUA&T, Kanpur	137	SSN-F6-38-1	IWBR, Karnal
138	NHP-F7-53-74-1	IWBR, Karnal	138	SSN-F6-22-2	IWBR, Karnal
139	DWR-F6-3-1	IWBR, Karnal	139	SSN-F6-31-1	IWBR, Karnal
140	SAWYT-31	CIMMYT	140	SSN-F6-58-1	IWBR, Karnal
141	DWR-F7-89-115-4	IWBR, Karnal	141	SSN-F6-50-2	IWBR, Karnal
142	F6-21-1	Sabour	142	SSN-F7-1430-1	IWBR, Karnal
143	F6-30-3	Sabour	143	SSN-F6-1452-1	IWBR, Karnal
144	SSN-F7-24-1330-2-1	IWBR, Karnal	144	SSN-F7-1441-2	IWBR, Karnal
145	F8-31-3	Sabour	145	SSN-F7-1433-1	IWBR, Karnal
146	DWR-F6-3-2	IWBR, Karnal	146	SSN-F7-1446-3	IWBR, Karnal
147	BRW 3708	Sabour	147	SSN-F7-1434-1	IWBR, Karnal
148	NHP-F6-201-144-3	IWBR, Karnal	148	SSN-F7-1428-3	IWBR, Karnal
149	SSN-F6-104-1427-7	IWBR, Karnal	149	SSN-F7-1427-9	IWBR, Karnal
150	SSN-F8-8-422	IWBR, Karnal	150	SSN-F6-1438-1	IWBR, Karnal
151	W X S-F6-32-3	IWBR, Karnal	151	SSN-F7-1427-10	IWBR, Karnal
152	W X S-F6-12-5	IWBR, Karnal	152	SSN-F7-1443-7	IWBR, Karnal
153	SSN-F5-230-41-3	IWBR, Karnal	153	SSN-F7-1428-2	IWBR, Karnal
154	SW 237	Sabour	154	SSN-F7-1442-2	IWBR, Karnal
155	SW 247	Sabour	155	SSN-F7-1444-8	IWBR, Karnal
156	SSN-F7-38-1358-2-1	IWBR, Karnal	156	SSN-F7-1438-3	IWBR, Karnal
157	W X S-F6-13-16	IWBR, Karnal	157	SSN-F7-1424-3	IWBR, Karnal
158	W X S-F6-12-11	IWBR, Karnal	158	SSN-F7-1429-4	IWBR, Karnal
159	W X S-F6-13-4	IWBR, Karnal	159	SSN-F8-1330-2-2	IWBR, Karnal
160	W X S-F6-27-2	IWBR, Karnal	160	SSN-F8 1400-1-1	IWBR, Karnal
161	SSN-F7-9-48-2	IWBR, Karnal	161	SSN-F8-1343-1-1	IWBR, Karnal
162	SSN-F6-1365	IWBR, Karnal	162	SSN-F8-1345-3-1	IWBR, Karnal
163	SW 130	Sabour	163	SSN-F8-1400-13	IWBR, Karnal
164	SW 135	Sabour	164	BRW 3792(C)	Sabour
165	SSN-F5-227-38-3	IWBR, Karnal	165	SSN-F7-1442-1-2	IWBR, Karnal
166	SSN-F8-7-27-1	IWBR, Karnal	166	SSN-F8-1342-3-1	IWBR, Karnal
167	SSN-F5-214-8-1	IWBR, Karnal	167	SSN-F8-1402-1-2	IWBR, Karnal
168	DWR-F6- 17-4	IWBR, Karnal	168	SSN-F6-1339-1-2	IWBR, Karnal
169	W X S-F6-27-2	IWBR, Karnal	169	SSN-F8-1330-4-1	IWBR, Karnal
170	SSN-F6-99-1424-3	IWBR, Karnal	170	SSN-F8-1343-2-1	IWBR, Karnal
171	SSN-F6-100-1427-1	IWBR, Karnal	171	SSN-F8-1343-2-2	IWBR, Karnal
172	SW 117	Sabour	172	SSN-F8-1367-4	IWBR, Karnal

Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
173	W X S-F6-11-4	IIWBR, Karnal	173	SSN-F8-1375-2-1	IIWBR, Karnal
174	DWR-F6-40-5	IIWBR, Karnal	174	SSN-F8-1358-2-1	IIWBR, Karnal
175	NHP-F6-131-2	IIWBR, Karnal	175	SSN-F8-1330-1-1	IIWBR, Karnal
176	NHP-F6-183-121-1	IIWBR, Karnal	176	SSN-F8-1367-2	IIWBR, Karnal
177	SSN-F6-132-1443-7	IIWBR, Karnal	177	SSN-F8-1332-1-3	IIWBR, Karnal
178	NHP-F6-195-136-2	IIWBR, Karnal	178	SSN-F8-1330-2-1	IIWBR, Karnal
179	SSN-F4-1427-9	IIWBR, Karnal	179	SSN-F9-42-2	IIWBR, Karnal
180	SW-486	Sabour	180	NHP-F7-104-3	IIWBR, Karnal
181	NHP-F6-164-501	IIWBR, Karnal	181	NHP-F7-20-2	IIWBR, Karnal
182	W X S-F6-7-4	IIWBR, Karnal	182	NHP-F7-136-2	IIWBR, Karnal
183	SW-515	Sabour	183	NHP-F7-86-1	IIWBR, Karnal
184	W X S-F6-12-1-4	IIWBR, Karnal	184	NHP-F7-151-1	IIWBR, Karnal
185	DWR-F7-70-70-5	IIWBR, Karnal	185	NHP-F7-130-3	IIWBR, Karnal
186	W X S-F6-12-8	IIWBR, Karnal	186	NHP-F7-121-1	IIWBR, Karnal
187	SSN-F6-152-1455-3	IIWBR, Karnal	187	NHP-F7-140-1	IIWBR, Karnal
188	SSN-F5-248-60-2	IIWBR, Karnal	188	NHP-F7-85-1	IIWBR, Karnal
189	SSN-F5-216-14-3	IIWBR, Karnal	189	NHP-F7-136-1	IIWBR, Karnal
190	W X S-F6-11-3	IIWBR, Karnal	190	NHP-F7-121-4	IIWBR, Karnal
191	NHP-F6-154-20-2	IIWBR, Karnal	191	NHP-F76-56-3	IIWBR, Karnal
192	SW -457	Sabour	192	NHP-F7-98-1	IIWBR, Karnal
193	SW-534	Sabour	193	NHP-F7-134-2	IIWBR, Karnal
194	SSN-F5-217-22-2	IIWBR, Karnal	194	NHP-F7-136-4	IIWBR, Karnal
195	W X S-F6-29-2	IIWBR, Karnal	195	NHP-F7-48-2	IIWBR, Karnal
196	SSN-F6-137-1444-5	IIWBR, Karnal	196	NHP-F7-61-2	IIWBR, Karnal
197	NHP-F6-185-121-4	IIWBR, Karnal	197	NHP-F7-25-1	IIWBR, Karnal
198	NH-F7-9-2	IIWBR, Karnal	198	BRW 3708(C)	Sabour
199	NH-F7-9-3	IIWBR, Karnal	199	NHP-F7-26-2	IIWBR, Karnal
200	NH-F7-10-1	IIWBR, Karnal	200	NHP-F7-37-2	IIWBR, Karnal
201	DWR-F7-69-37-3	IIWBR, Karnal	201	NHP-F7-53-1	IIWBR, Karnal
202	DWR-F7-85-102-8	IIWBR, Karnal	202	NHP-F7-37-1	IIWBR, Karnal
203	SSN-F6-129-1442-2	IIWBR, Karnal	203	NHP-F7-38-5	IIWBR, Karnal
204	F7-34-2	Sabour	204	NHP-F7-52-2	IIWBR, Karnal
205	F7-32-1	Sabour	205	SAWYT 15	CIMMYT
206	HD-2967	IARI, New Delhi	206	HPYT 446	CIMMYT
207	SSN-F7-25-1330-2-2	IIWBR, Karnal	207	HPYT430	CIMMYT
208	F7-21-50-2	Sabour	208	SAWYT 4	CIMMYT
209	F8-4-6	Sabour	209	SAWYT 29	CIMMYT
210	F7-25-2	Sabour	210	HYPT 429	CIMMYT
211	F7-32-3	Sabour	211	F8 39-2	Sabour
212	NHP-F6-162-48-2	IIWBR, Karnal	212	F8-26-2	Sabour
213	SSN-F6-56-7	IIWBR, Karnal	213	F8-33-1	Sabour
214	SSN-F6-61-6	IIWBR, Karnal	214	F8-33-2	Sabour
215	SSN-F6-130-1443-4	IIWBR, Karnal	215	F8-32-3	Sabour

<https://doi.org/10.17221/45/2021-CJGPB>

Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
216	NHP-F6-194-136-1	IWBR, Karnal	216	NHP-F8-1-7-2	IWBR, Karnal
217	DWR-F7-66-32-3	IWBR, Karnal	217	NHP-F8-21-4	IWBR, Karnal
218	SSN-F5-226-38-2	IWBR, Karnal	218	NHP-F8-74-1	IWBR, Karnal
219	SSN-F5-212-5-3	IWBR, Karnal	219	NHP-F8-11-2	IWBR, Karnal
220	NHP-F7-1-6-4	IWBR, Karnal	220	NHP-F8-41-1	IWBR, Karnal
221	SSN-F5-242-59-1	IWBR, Karnal	221	SAB-F7-14-8	Sabour
222	NHP-F7-22-3	IWBR, Karnal	222	SAB-F7-15-2	Sabour
223	SSN-F5-210-4-1	IWBR, Karnal	223	DWR-F8-98-2	IWBR, Karnal
224	NHP-F7-72-3	IWBR, Karnal	224	DWR-F8-24-2	IWBR, Karnal
225	NHP-F7-50-21-4	IWBR, Karnal	225	DWR-F8-109-8	IWBR, Karnal
226	F7-18-40-1	Sabour	226	DWR-F8-78-5	IWBR, Karnal
227	SSN-F7-33-1343-1-1	IWBR, Karnal	227	DWR-F8-112-3	IWBR, Karnal
228	SSN-F6-131-1443-5	IWBR, Karnal	228	DWR-F9-19-2	IWBR, Karnal
229	NHP-F6-257-75-1	IWBR, Karnal	229	DWR-F8-70-2	IWBR, Karnal
230	F8-2-5-2	Sabour	230	SW 371	Sabour
231	SSN-F5-241-58-4	IWBR, Karnal	231	SW 298	Sabour
232	NHP-F6-179-104-1	IWBR, Karnal	232	SW-303	Sabour
233	SSN-F7-34-1343-2-1	IWBR, Karnal	233	SW-478	Sabour
234	SW-404	Sabour	234	SW-155	Sabour
235	SW502	Sabour	235	SW 375	Sabour
236	SSN-F6-115-1430-1	IWBR, Karnal	236	SW 255	Sabour
237	DWR-F7-67-36-1	IWBR, Karnal	237	SW-345	Sabour
238	SSN-F6-147-1447-2	IWBR, Karnal	238	SW-487	Sabour
			239	SW-515	Sabour
			240	SW-411	Sabour
			241	SW124	Sabour
			242	SW-310	Sabour
			243	SW-334	Sabour
			244	SW 465	Sabour
			245	SW-309	Sabour
			246	SW-438	Sabour
			247	SW-401	Sabour
			248	SW 139	Sabour
			249	SW-373	Sabour
			250	SW-493	Sabour
			251	SW-151	Sabour
			252	SW-277	Sabour
			253	SW-519	Sabour
			254	SW-359	Sabour
			255	SW-101	Sabour
			256	SW-245	Sabour
			257	SW-260	Sabour
			258	SW 348	Sabour

<https://doi.org/10.17221/45/2021-CJGPB>

Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
			259	SW 150	Sabour
			260	SW-172	Sabour
			261	SW-111	Sabour
			262	SW-486	Sabour
			263	SW-386	Sabour
			264	SW-125	Sabour
			265	SW 108	Sabour
			266	SW-476	Sabour
			267	SW -457	Sabour
			268	SW-534	Sabour
			269	SW-482	Sabour
			270	SW-132	Sabour
			271	SW-257	Sabour
			272	SW-370	Sabour
			273	SW-168	Sabour
			274	SW-525	Sabour
			275	SW-160	Sabour
			276	SW-177	Sabour
			277	SW-536	Sabour
			278	SW-284	Sabour
			279	SW-361	Sabour
			280	SW-127	Sabour
			281	SW 164	Sabour
			282	K 1006 (C)	CSAUA&T, Kanpur
			283	SW 365	Sabour
			284	SW-163	Sabour
			285	SW-404	Sabour
			286	SW-409	Sabour
			287	SW-433	Sabour
			288	BRW 3792 (C)	Sabour
			289	SW 176	Sabour
			290	SW462	Sabour
			291	SW396	Sabour
			292	SW527	Sabour
			293	SW321	Sabour
			294	SW268	Sabour
			295	SW418	Sabour
			296	SW502	Sabour
			297	SW508	Sabour
			298	SW362	Sabour
			299	SW408	Sabour
			300	SW537	Sabour
			301	SW422	Sabour

<https://doi.org/10.17221/45/2021-CJGPB>

Table S1 to be continued.

2016–2017			2017–2018		
Sl. No.	genotype	source	sl. No.	genotypes	source
			302	SW291	Sabour
			3003	SW495	Sabour
			304	SW535	Sabour
			305	SW161	Sabour
			306	SW115	Sabour
			307	SW272	Sabour
			308	SW332	Sabour
			309	SW377	Sabour
			310	SW461	Sabour
			311	SW138	Sabour
			312	SW337	Sabour
			313	SW347	Sabour
			314	SW141	Sabour
			315	SW350	Sabour
			316	SW304	Sabour
			317	SW464	Sabour
			318	SW152	Sabour
			319	SW130	Sabour
			320	SW429	Sabour
			321	SW491	Sabour

Table S2. Total number of rainy days and amount of rainfall during the crop growing period 2016–2017; 2017–2018; 2018–2019

Year (2016–2017)	Rainfall (mm)	Year (2017–2018)	Rainfall (mm)	Year (2018–2019)	Rainfall (mm)
28-Jan	12.4	26-Mar	24.2	18-Dec	11.2
11-Mar	3.2	2nd April	6.2	22-Jan	4.6
18-Mar	0.6			5-Feb	34
20-Mar	0.7			26-Feb	1.3
25-Mar	5.2			27-Feb	6.2
				26-Mar	0.6
				2-Apr	18.6

Table S3. Average soil moisture content (%) at different crop growth

Crop growth stage	Non-stress environment	Heat stress environment
Crown root initiation	23.6	21.8
Grain filling stage	20.9	19.3
Physiological maturity	15.6	14.3

Table S4. Performance of genotypes evaluated under heat stress during 2018–2019

Sl. No.	Genotype	Plant height (cm)	Days to heading	Panicle length (cm)	Canopy temperature (°C)	SPAD in flag leaf (F)	SPAD in penultimate leaf (F-1)	Biomass/plant (g)	Stay-green score	Grain yield (q/ha)
1	W X S F8-11-4	85.00	70	8.33	28.5	47.3	44.6	11.33	19	33.83
2	NHP-F8-130	96.00	74	8.67	27.4	53.3	53.5	9.33	8	30.25
3	DWR-F8-9-2	86.00	71	9.00	29.5	43.4	40.4	15.67	16	22.08
4	NHP-F8-56-3	107.33	69	9.00	28	49.3	48	5.33	30	24.33
5	SW-139	103.00	74	11.00	27.7	57.2	52.6	17.33	30	25.17
6	W X S-F8-13-5	95.67	67	8.33	28	44.6	46	8.00	30	28.17
7	DWR-F8-3-1	100.67	72	9.67	27.4	54.4	52.1	8.33	8	29.42
8	SSN-F7-56-7	109.00	70	11.33	28.9	52.8	49.5	18.33	40	28.17
9	SW-160	86.67	72	9.33	28.2	49.2	49.7	26.67	0	30.33
10	F9-39-2	92.00	74	9.67	26.9	50	44.4	10.00	0	28.08
11	SW-534	88.00	77	10.33	26.7	45.6	45.8	10.67	29	28.25
12	SW-429	90.67	74	9.33	27.9	42	40.4	13.33	18	31.42
13	W XS-F8-28-2	92.67	72	10.67	27	46.8	48.7	8.00	0	26.83
14	SSN-F7-50-2	86.00	73	8.33	27.5	51.8	46.3	13.33	22	28.50
15	SW-404	88.00	78	8.33	26.1	47.5	41.8	22.00	29	28.83
16	W X S-F8-8-2	88.00	65	9.00	27.4	43	40	7.67	0	26.17
17	DWR-F8-13-4	99.67	69	8.00	26.7	44	40.1	10.67	8	30.25
18	BRW 3708	107.67	71	8.67	28.4	50.9	49.2	11.00	0	28.75
19	DWR-F8-35-13	84.33	68	7.33	27.5	47.7	41.7	15.33	7	33.00
20	SW-502	108.67	65	9.67	28.3	46.9	41.6	6.67	4	18.17
21	DWR-F8-19-2	98.67	67	8.00	27.7	48.1	46.7	8.33	0	17.33
22	SSN-F8-1429-4	87.33	70	9.67	26.9	51.1	43.2	10.00	37	25.75
23	SW-359	95.33	78	9.67	26.3	48.2	45.4	16.67	–11	27.50
24	DWR-F8-37-3	101.33	69	11.33	27.7	50	45.5	19.33	23	26.42
25	SW-396	88.33	69	8.33	25.9	48.6	42.5	9.33	38	29.67
26	SW-255	105.00	69	9.67	25.9	50	48.6	10.00	26	30.50
27	SSN-F8-1433-1	98.67	68	9.33	26.5	47.1	47	8.33	8	37.42
28	SSN-F8-1367-4	87.00	71	9.33	26	49.1	46.8	6.33	38	25.67
29	DWR-F8-19-7	92.67	72	9.67	26.5	47.7	45.7	11.33	63	34.08
30	SW-491	107.33	69	8.67	25.7	44.3	43.8	10.00	16	31.33
31	HPYT-446	89.33	80	9.67	25.7	46.3	40.8	23.33	18	33.33
32	SW-115	74.00	65	7.67	27	45.7	38.8	10.00	16	24.67
33	SW-310	73.33	64	8.33	27.8	35.9	35.2	7.00	16	19.67
34	W X S-F8-1-1-1	87.00	72	9.00	25.6	40.7	35.1	9.33	15	20.67
35	SW-457	81.67	63	9.00	26.5	47.9	44.6	19.00	–4	26.33
36	SW-486	84.33	80	7.33	25.2	50	47.4	10.00	8	21.92
37	DWR-F8-35-4-1	81.67	74	9.00	25	54.5	46.9	9.33	8	23.75
38	SAWYT-29	90.33	65	7.00	25.3	47.2	38.7	13.67	24	29.67
39	SW-138	86.67	73	8.33	24.8	50.6	51.1	11.00	70	27.75
40	NHP-F8-38-5	81.33	73	6.33	25.5	47.8	47	7.33	45	24.00
41	SAWYT-15	83.00	67	7.33	26.5	46.4	43.4	11.67	4	22.42
42	SSN-F8-1441-2	96.00	71	9.33	26.2	48.6	41.2	13.67	15	24.58

<https://doi.org/10.17221/45/2021-CJGPB>

Table S4 to be continued.

Sl. No.	Genotype	Plant height (cm)	Days to heading	Panicle length (cm)	Canopy temperature (°C)	SPAD in flag leaf (F)	SPAD in penultimate leaf (F-1)	Biomass/plant (g)	Stay-green score	Grain yield (q/ha)
43	SSN-F8-1444-8	105.67	74	9.33	24.9	42.4	34.8	11.67	18	27.75
44	SSN-F7-31-1	92.33	70	8.33	26.1	44.9	33.3	13.67	16	22.92
45	W X S-F8-1-2-1	87.67	70	7.67	26.4	47.6	33.1	9.33	8	22.33
46	DWR-F8-35-14	78.67	70	7.33	25.5	45.7	37	10.00	23	25.58
47	NHP-F8-85-1	93.33	72	9.00	24.6	46.2	43.3	17.67	70	29.42
48	DWR-F8-8-51-1	97.33	76	9.67	25.2	46.2	42.3	15.00	37	24.58
49	SW-401	91.33	76	9.00	24.7	51.8	45.1	13.67	36	27.25
50	W X S-F8-7-4	90.00	68	7.67	24.4	47.6	45.6	10.00	19	18.75
51	W X S-F8-7-1	102.67	76	8.33	24.9	43.2	40.6	12.67	15	30.75
52	NHP-F8-121-1	77.33	71	7.67	24.8	41.7	38.3	12.33	-3	23.17
53	NHP-F9-74-1	88.67	74	8.67	24.4	52.8	49.1	18.00	37	32.67
54	DBW-14	80.67	72	8.33	25.7	47	37.8	6.67	49	25.00
55	SW-130	69.67	67	8.00	24.9	49.5	41.5	8.00	42	25.08
56	HD-2967	88.33	67	8.00	24.8	50.3	46.8	10.00	8	28.75
57	BRW-967	92.00	73	8.00	25	47.4	43	9.33	8	28.33
58	SW-108	87.33	73	7.67	25.3	54.7	49.1	12.67	37	35.58
59	PBW-343	85.00	74	8.00	24.2	50.8	43.8	8.67	48	25.00
60	HUW-234	87.00	77	8.67	24.4	46.4	42.8	9.67	29	31.00
61	DWR-F8-2-4	83.67	66	8.33	25.1	41.5	38.5	8.33	4	23.75
62	W X S-F8-27-2	95.67	68	9.00	25.9	48.2	42	14.00	-3	33.33
63	DWR-F9-112-3	94.00	70	9.00	25.1	41.3	38.5	10.00	15	30.92
64	SSN-F9-1345-3-1	89.33	72	8.00	24.9	40.4	38.3	11.67	26	16.75
65	SW-176	83.67	71	9.00	25.2	43.9	40	9.00	1	26.92
66	SSN-F8-1430-1	105.00	73	9.00	26.5	45.9	41.5	11.00	40	31.08
67	HPYT-429	107.67	67	9.33	26.2	51	43.8	21.33	4	31.42
68	SAWYT-4	122.33	81	10.00	25	51	45.7	18.00	65	25.92
69	SW-304	89.33	71	7.67	25.6	47.7	43.7	10.33	40	32.00
70	SSN-F7-59-3	106.00	67	10.33	26.2	46.9	44.7	16.00	11	32.75
71	W X S-F8-7-2	86.67	74	7.33	24.7	45.2	41.2	10.33	18	31.00
72	DWR-F9-98-2	107.67	71	10.67	25.35	46.3	44.3	7.33	0	35.92
73	SSN-F7-61-5	79.33	65	9.33	25.2	49.9	46.7	9.33	0	29.33
74	SW-268	83.00	69	8.33	25.3	44.5	37.9	19.33	34	26.33
75	W X S-F8-16-2	86.33	78	9.00	25.5	48.8	46	16.33	30	20.67
76	SW-298	87.67	73	8.33	24	49.9	49.4	15.67	29	27.17
77	SW-152	81.67	76	8.33	23.2	44.2	40.9	6.67	18	16.92
78	W X S-537	82.00	72	9.00	24.1	44.7	37	9.67	29	26.75
79	DWR-F8-30-7-1	100.67	68	9.00	25.2	44.9	39.8	18.00	7	31.42
80	SSN-F9-1343-2-2	94.67	69	9.67	24.5	42	37.8	9.67	0	17.92
81	HI-1563	83.67	76	10.00	24.5	44.4	42.1	9.67	7	23.58
82	SW-508	84.67	74	8.67	23.5	44.2	39.3	10.33	-4	20.42
83	NHP-F8-26-2	98.67	76	10.33	24.5	47.3	42.9	22.00	7	27.58
84	NHP-F8-151-1	90.67	76	9.00	24.2	46.7	40.1	10.67	18	17.83

Table S4 to be continued.

Sl. No.	Genotype	Plant height (cm)	Days to heading	Panicle length (cm)	Canopy temperature (°C)	SPAD in flag leaf (F)	SPAD in penultimate leaf (F-1)	Biomass/plant (g)	Stay-green score	Grain yield (q/ha)
85	SSN-F7-38-1	102.33	70	9.33	25.6	43.9	43.3	16.33	18	30.67
86	W X S-F8-10-1	72.00	68	7.00	23.8	41	39.1	11.00	12	25.25
87	SSN-F7-61-6	66.00	68	8.00	24.5	44.9	39.6	4.67	0	17.33
88	SW-164	89.00	65	8.33	24.8	39	30.9	10.00	0	22.33
89	HPYT-430	86.33	74	8.67	23.5	48.3	41	15.00	18	24.50
90	DWR-F8-35-12	91.00	72	9.67	23.3	40	39.7	12.33	-11	23.92
91	SW-361	99.67	68	8.67	23.7	38.6	38.3	13.33	0	25.83
92	W X S-F8-32-2	75.33	70	6.67	24.2	41.2	35.5	9.67	0	18.58
93	SW-515	89.67	67	6.00	23.9	42.1	44.8	8.67	19	22.42
94	SSN-F9-1330-2-2	88.67	69	12.00	24.1	47	43.5	11.33	11	18.50
95	DWR-F8-2-2	94.67	71	8.33	25.4	41.7	35.2	9.33	0	26.33
96	DWR-F8-3-2	86.33	64	9.00	25.4	43.9	30	5.67	-12	26.83
97	W X S-F8-12-8	73.67	69	9.00	25.5	41	37.3	9.00	0	16.25
98	W X S-F8-12-1	74.33	74	9.00	25.8	52.1	41.9	14.00	-12	21.75
99	NHP-F9-41-1	106.33	81	9.67	24.6	43.6	40.1	13.33	14	19.00
100	SW-362	96.67	73	12.00	24.5	41.2	37.3	21.33	22	27.75
	Mean	90.76	71.20	8.83	25.72	46.60	42.49	12.03	17.43	26.33
	CD(0.05)	4.79	2.71	1.72	2.34	3.38	2.91	4.31	4.87	3.84
	CV (%)	4.42	4.17	9.58	11.66	6.02	5.11	17.02	16.12	13.12

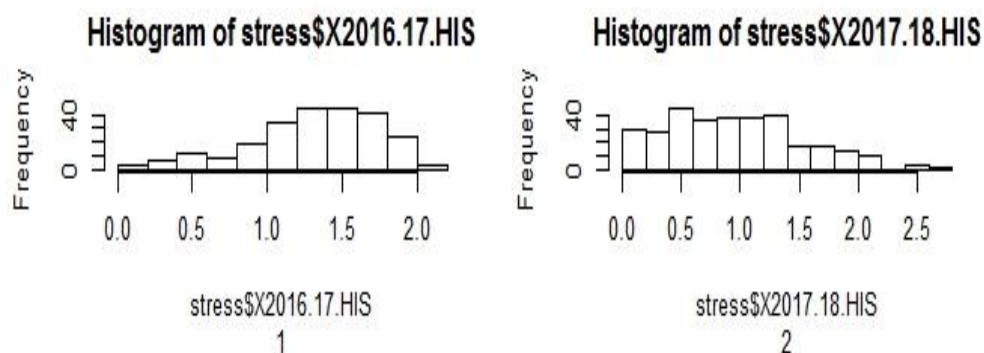


Figure S1. Frequency distribution of genotypes using heat susceptible index (HSI) grown under normal and heat stress in 2016–2017 and 2017–2018.