

Annexure 1. A brief description of the plant material (parental lines) used for line × tester mating (46 × 5) attempted during rainy 2020/summer 2021

S. No.	Material Code	Variety/Identity	Pedigree
Lines (B-line/female parents)			
1.	B8	ICMB 92111	(81B × 843B)-11-1-1-B
2.	B12	ICMB 92777	{843B × (ICMPS 500-4-4-3 × ICMPS 1800-3-1-2-C3-4)}-7-1-3
3.	B15	ICMB 93222	(26B × 834B)-11-2-B-B
4.	B16	ICMB 93333	(843B × ICMPS 900-9-3-8-2)-21-8-4
5.	B29	ICMB 97111	HTBC-48-B-1-1-1-1
6.	B30	ICMB 97222	{(ICMB 88006 × ICMB 88005) × (ICMB 89111 × ICMB88004)}-28-2-B
7.	B33	ICMB 98222	ARD-288-1-10-1-2(RM)-5
8.	B36	ICMB 98555	[{(81B × SRL 53-1) × 843B]-3-5-2 × (843B × 834B)-25-B-B-1]-84-5-B-B
9.	B44	ICMB 99666	(BSECBPT/91-38 × SPF3/S91-529)-10-1-5-2
10.	B48	ICMB 00444	(SPF3/S91-544 × SPF3/S91-5)-5-1-2-1
11.	B49	ICMB 00555	HHVBC-S1-16-6-3-5-2-B
12.	B54	ICMB 01666	{(ICMB 89111 × ICMB 88004) × (ICMB 88006 × IP 9402)-2-1-1-4}-102-B-1
13.	B55	ICMB 01888	[{(81B × SRL-53-1) × 843B]-3-5-3 × [(843B × 111B)-10-1-2-2]}-226-B-2-B-B-B
14.	B57	ICMB 02333	(BSECBPT/91-39 × SPF3/S91-116)-15-2-1-2
15.	B75	ICMB 05666	[(BSECBPT/91-40 × SPF3/S91-3)-1-2-2-3 × B-bulk]-2-B-1-1
16.	B82	ICMB 06777	(ICMB 96333 × HHVBC-2-D2-HS-259-2)-4-B
17.	B87	ICMB 07555	[(843B × ICTP 8202-161-5)-20-3-B-B-3 × B-bulk]-2-B-1
18.	B88	ICMB 07666	[ARD-288-1-10-1-2 (RM)-3 × B-bulk]-14-B-1-1
19.	B91	ICMB 07999	(HTBC 48-B-1-1-1-5 × B-bulk)-25-1-B-B
20.	B92	ICMB 08111	(DMR 133 × HTBC 48-B-1-1-1-5)-4
21.	B95	ICMB 08444	HHVBC II D2 HS-410-1-2-4-1-3-B-2-2-3-2
22.	B96	ICMB 08555	(ICMB 96555 × IP 10437)-2-4-2-B-6-1
23.	B97	ICMB 08666	[(D2BLN/95-93 × SPF1/K95-3213-20)-10 × (91777B × HHVBC)]-7-B-1-B-B-4-B-1
24.	B99	ICMB 08888	(SRC II C3 S1-19-3-2 × HHVBC)-27-2-2-1-2-2
25.	B101	ICMB 09111	[78-7088/3/SER3 AD//B282/(3/4) EB × PBLN/S95-359]-7-4-B-B-2-B-B
26.	B107	ICMB 09888	NC D2 S1-2-2-2-3-2-B-2
27.	B110	ICMB 10333	(ICMR 312 S1-4-3-3-B × HHVBC)-3-2-1-2-2-2
28.	B111	ICMB 10555	(ICMB 95444 × ICMB 94555)-18-3-B-4-2
29.	B115	ICMB 11111	[EBC-GEN-S1-40-2-2-1 × B-bulk]-19-B-B-2-B-B-3
30.	B118	ICMB 11555	[(MC 94 S1-81-1-B × HHVBC)-4-4-1 × (MC 94 S1-81-1-B × HHVBC)-4-2-4]-10-3-1-B-1
31.	B120	ICMB 11888	(D2BLN/95-103 × EEBC C1-3)-6-B-4-B-2-1
32.	B126	Adv B line	[HHV-S1-24-3-B-3-2 × (ICMB 91777 × HHVBC)]-5-B-1-1-B-B-B
33.	B129	Adv B line	(ICMB 93333 × ICMB 01222)-11-1-B-7-2
34.	B141	Adv B line	[(ICMB 95555 × ICMB 94333)-8-2-1-B-B-9-1 × B-bulk (3981-4011/S06 G1)]-2-3-4-B

S. No.	Material Code	Variety/Identity	Pedigree
35.	B145	Adv B line	(HHVDBC HS-246-1-2-1-2 × ICMB 98444)-4-3-1-2
36.	B150	Adv B line	[ICMB 97444 × (D2BLN/95-98 × EEBC C1-1)-7-B-B]-34-2-4-B-B-5-B-B
37.	B152	Adv B line	[(DMR 133 × HTBC 48-B-1-1-1-5)-19-2-B-B × ICMB 04111]-145-6-2-4
38.	B153	Adv B line	[(DMR 133 × HTBC 48-B-1-1-1-5)-19-2-B-B × ICMB 04111]-149-5-2-2
39.	B166	Adv B line	[(MC 94 S1-34-1-B × HHVBC)-10-4-3-2-2-B-B-2 × (ICMR 312 S1-1-5-3-B × HHVBC)-7-1-1-1-B-B-B]-21-B-1-2
40.	B180	Adv B line	(ICMB 93333 × ICMB 01222)-11-2-2-2-B-2-6
41.	B182	Adv B line	(ICMB 93333 × ICMB 01222)-20-2-B-5-B-4-B
42.	B184	Adv B line	[{(ICMB 96555 × IP 10437)-9-B-B-B-B-B × IP 14758-2-2}-19-1-B × (ICMB 96555 × IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1
43.	B187	Adv B line	IC-CZBC-C0-60-3-1-2-3 R5-3-B-B
44.	B188	Adv B line	[(ICMB 95111 × (ICMB 96555 × IP 10437)-3]-7-2-1-B-2-15-1] × B-bulk (3981-3989/S06 G1))-3-2-4-B × HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3
45.	B189	Adv B line	[(ICMB 95111 × (ICMB 96555 × IP 10437)-3]-7-2-1-B-2-15-1] × B-bulk (3981-3989/S06 G1))-3-2-4-B × HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3
46.	B192	Adv B line	(ICMB 04888 × HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3
Testers (male parents/Testers/R-lines)			
1	R13	ICMR 07555	ICMS 8511 S1-17-2-1-1-4-1-B-3-2-2-B
2	R22	ICMR 08555	ICMV 91059 S1-4-2-3-2-1-1-4-B-1-5-B-B
3	R25	ICMR 08888	ICMS 7704-S1-52-3-1-2-1-2-1-6-B-B
4	R34	ICMR 09888	[((MC 94 S1-34-1-B × HHVBC)-16-2-1) × (IP19626-4-2-3)]-B-34-1-3-3-1-1-B-2
5	R48	ICMR 11555	SDMV 90031-S1-3-3-2-1-3-2-2-3-1

Annexure 2. Description of pearl millet hybrids and checks evaluated during rainy season 2021 in alpha-lattice design for line × testers analysis

S. No.	Variety	Cross Code	Pedigree Details
1.	ICPH012	B8/R13	ICMB 92111/ICMR 07555
2.	ICPH011	B8/R22	ICMB 92111/ICMR 08555
3.	ICPH203	B8/R25	ICMB 92111/ICMR 08888
4.	ICPH204	B8/R34	ICMB 92111/ICMR 09888
5.	ICPH205	B8/R48	ICMB 92111/ICMR 11555
6.	ICPH016	B12/R13	ICMB 92777/ICMR 07555
7.	ICPH015	B12/R22	ICMB 92777/ICMR 08555
8.	ICPH206	B12/R25	ICMB 92777/ICMR 08888
9.	ICPH207	B12/R34	ICMB 92777/ICMR 09888
10.	ICPH208	B12/R48	ICMB 92777/ICMR 11555

S. No.	Variety	Cross Code	Pedigree Details
11.	ICPH018	B15/R13	ICMB 93222/ICMR 07555
12.	ICPH017	B15/R22	ICMB 93222/ICMR 08555
13.	ICPH209	B15/R25	ICMB 93222/ICMR 08888
14.	ICPH210	B15/R34	ICMB 93222/ICMR 09888
15.	ICPH211	B15/R48	ICMB 93222/ICMR 11555
16.	ICPH020	B16/R13	ICMB 93333/ICMR 07555
17.	ICPH019	B16/R22	ICMB 93333/ICMR 08555
18.	ICPH212	B16/R25	ICMB 93333/ICMR 08888
19.	ICPH213	B16/R34	ICMB 93333/ICMR 09888
20.	ICPH214	B16/R48	ICMB 93333/ICMR 11555
21.	ICPH034	B29/R13	ICMB 97111/ICMR 07555
22.	ICPH033	B29/R22	ICMB 97111/ICMR 08555
23.	ICPH215	B29/R25	ICMB 97111/ICMR 08888
24.	ICPH216	B29/R34	ICMB 97111/ICMR 09888
25.	ICPH217	B29/R48	ICMB 97111/ICMR 11555
26.	ICPH036	B30/R13	ICMB 97222/ICMR 07555
27.	ICPH035	B30/R22	ICMB 97222/ICMR 08555
28.	ICPH218	B30/R25	ICMB 97222/ICMR 08888
29.	ICPH219	B30/R34	ICMB 97222/ICMR 09888
30.	ICPH220	B30/R48	ICMB 97222/ICMR 11555
31.	ICPH042	B33/R13	ICMB 98222/ICMR 07555
32.	ICPH041	B33/R22	ICMB 98222/ICMR 08555
33.	ICPH221	B33/R25	ICMB 98222/ICMR 08888
34.	ICPH222	B33/R34	ICMB 98222/ICMR 09888
35.	ICPH223	B33/R48	ICMB 98222/ICMR 11555
36.	ICPH048	B36/R13	ICMB 98555/ICMR 07555
37.	ICPH047	B36/R22	ICMB 98555/ICMR 08555
38.	ICPH224	B36/R25	ICMB 98555/ICMR 08888
39.	ICPH225	B36/R34	ICMB 98555/ICMR 09888
40.	ICPH226	B36/R48	ICMB 98555/ICMR 11555
41.	ICPH058	B44/R13	ICMB 99666/ICMR 07555
42.	ICPH057	B44/R22	ICMB 99666/ICMR 08555
43.	ICPH227	B44/R25	ICMB 99666/ICMR 08888
44.	ICPH228	B44/R34	ICMB 99666/ICMR 09888
45.	ICPH229	B44/R48	ICMB 99666/ICMR 11555
46.	ICPH230	B48/R13	ICMB 00444/ICMR 07555
47.	ICPH231	B48/R22	ICMB 00444/ICMR 08555
48.	ICPH232	B48/R25	ICMB 00444/ICMR 08888
49.	ICPH233	B48/R34	ICMB 00444/ICMR 09888
50.	ICPH234	B48/R48	ICMB 00444/ICMR 11555

S. No.	Variety	Cross Code	Pedigree Details
51.	ICPH062	B49/R13	ICMB 00555/ICMR 07555
52.	ICPH061	B49/R22	ICMB 00555/ICMR 08555
53.	ICPH235	B49/R25	ICMB 00555/ICMR 08888
54.	ICPH236	B49/R34	ICMB 00555/ICMR 09888
55.	ICPH237	B49/R48	ICMB 00555/ICMR 11555
56.	ICPH238	B54/R13	ICMB 01666/ICMR 07555
57.	ICPH239	B54/R25	ICMB 01666/ICMR 08888
58.	ICPH240	B54/R34	ICMB 01666/ICMR 09888
59.	ICPH241	B54/R48	ICMB 01666/ICMR 11555
60.	ICPH066	B55/R13	ICMB 01888/ICMR 07555
61.	ICPH065	B55/R22	ICMB 01888/ICMR 08555
62.	ICPH242	B55/R25	ICMB 01888/ICMR 08888
63.	ICPH243	B55/R34	ICMB 01888/ICMR 09888
64.	ICPH244	B55/R48	ICMB 01888/ICMR 11555
65.	ICPH068	B57/R13	ICMB 02333/ICMR 07555
66.	ICPH067	B57/R22	ICMB 02333/ICMR 08555
67.	ICPH245	B57/R25	ICMB 02333/ICMR 08888
68.	ICPH246	B57/R34	ICMB 02333/ICMR 09888
69.	ICPH247	B57/R48	ICMB 02333/ICMR 11555
70.	ICPH094	B75/R13	ICMB 05666/ICMR 07555
71.	ICPH093	B75/R22	ICMB 05666/ICMR 08555
72.	ICPH248	B75/R25	ICMB 05666/ICMR 08888
73.	ICPH249	B75/R34	ICMB 05666/ICMR 09888
74.	ICPH250	B75/R48	ICMB 05666/ICMR 11555
75.	ICPH100	B82/R13	ICMB 06777/ICMR 07555
76.	ICPH099	B82/R22	ICMB 06777/ICMR 08555
77.	ICPH251	B82/R25	ICMB 06777/ICMR 08888
78.	ICPH252	B82/R34	ICMB 06777/ICMR 09888
79.	ICPH253	B82/R48	ICMB 06777/ICMR 11555
80.	ICPH106	B87/R13	ICMB 07555/ICMR 07555
81.	ICPH105	B87/R22	ICMB 07555/ICMR 08555
82.	ICPH254	B87/R25	ICMB 07555/ICMR 08888
83.	ICPH255	B87/R34	ICMB 07555/ICMR 09888
84.	ICPH256	B87/R48	ICMB 07555/ICMR 11555
85.	ICPH108	B88/R13	ICMB 07666/ICMR 07555
86.	ICPH107	B88/R22	ICMB 07666/ICMR 08555
87.	ICPH257	B88/R25	ICMB 07666/ICMR 08888
88.	ICPH258	B88/R34	ICMB 07666/ICMR 09888
89.	ICPH259	B88/R48	ICMB 07666/ICMR 11555
90.	ICPH114	B91/R13	ICMB 07999/ICMR 07555

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S. No.	Variety	Cross Code	Pedigree Details
91.	ICPH113	B91/R22	ICMB 07999/ICMR 08555
92.	ICPH260	B91/R25	ICMB 07999/ICMR 08888
93.	ICPH261	B91/R34	ICMB 07999/ICMR 09888
94.	ICPH262	B91/R48	ICMB 07999/ICMR 11555
95.	ICPH116	B92/R13	ICMB 08111/ICMR 07555
96.	ICPH115	B92/R22	ICMB 08111/ICMR 08555
97.	ICPH263	B92/R25	ICMB 08111/ICMR 08888
98.	ICPH264	B92/R34	ICMB 08111/ICMR 09888
99.	ICPH265	B92/R48	ICMB 08111/ICMR 11555
100.	ICPH120	B95/R13	ICMB 08444/ICMR 07555
101.	ICPH119	B95/R22	ICMB 08444/ICMR 08555
102.	ICPH266	B95/R25	ICMB 08444/ICMR 08888
103.	ICPH267	B95/R34	ICMB 08444/ICMR 09888
104.	ICPH268	B95/R48	ICMB 08444/ICMR 11555
105.	ICPH269	B96/R13	ICMB 08555/ICMR 07555
106.	ICPH270	B96/R22	ICMB 08555/ICMR 08555
107.	ICPH271	B96/R25	ICMB 08555/ICMR 08888
108.	ICPH272	B96/R34	ICMB 08555/ICMR 09888
109.	ICPH273	B96/R48	ICMB 08555/ICMR 11555
110.	ICPH122	B97/R13	ICMB 08666/ICMR 07555
111.	ICPH274	B97/R25	ICMB 08666/ICMR 08888
112.	ICPH275	B97/R34	ICMB 08666/ICMR 09888
113.	ICPH276	B97/R48	ICMB 08666/ICMR 11555
114.	ICPH124	B99/R13	ICMB 08888/ICMR 07555
115.	ICPH123	B99/R22	ICMB 08888/ICMR 08555
116.	ICPH277	B99/R25	ICMB 08888/ICMR 08888
117.	ICPH278	B99/R34	ICMB 08888/ICMR 09888
118.	ICPH279	B99/R48	ICMB 08888/ICMR 11555
119.	ICPH280	B101/R13	ICMB 09111/ICMR 07555
120.	ICPH281	B101/R22	ICMB 09111/ICMR 08555
121.	ICPH282	B101/R25	ICMB 09111/ICMR 08888
122.	ICPH283	B101/R34	ICMB 09111/ICMR 09888
123.	ICPH284	B101/R48	ICMB 09111/ICMR 11555
124.	ICPH285	B107/R22	ICMB 09888/ICMR 08555
125.	ICPH286	B107/R25	ICMB 09888/ICMR 08888
126.	ICPH287	B107/R34	ICMB 09888/ICMR 09888
127.	ICPH288	B107/R48	ICMB 09888/ICMR 11555
128.	ICPH289	B110/R25	ICMB 10333/ICMR 08888
129.	ICPH290	B110/R34	ICMB 10333/ICMR 09888
130.	ICPH291	B110/R48	ICMB 10333/ICMR 11555

S. No.	Variety	Cross Code	Pedigree Details
131.	ICPH292	B111/R22	ICMB 10555/ICMR 08555
132.	ICPH293	B111/R25	ICMB 10555/ICMR 08888
133.	ICPH294	B111/R34	ICMB 10555/ICMR 09888
134.	ICPH295	B111/R48	ICMB 10555/ICMR 11555
135.	ICPH137	B115/R22	ICMB 11111/ICMR 08555
136.	ICPH296	B115/R25	ICMB 11111/ICMR 08888
137.	ICPH297	B115/R34	ICMB 11111/ICMR 09888
138.	ICPH298	B115/R48	ICMB 11111/ICMR 11555
139.	ICPH299	B118/R13	ICMB 11555/ICMR 07555
140.	ICPH300	B118/R22	ICMB 11555/ICMR 08555
141.	ICPH301	B118/R25	ICMB 11555/ICMR 08888
142.	ICPH302	B118/R34	ICMB 11555/ICMR 09888
143.	ICPH303	B118/R48	ICMB 11555/ICMR 11555
144.	ICPH143	B120/R22	ICMB 11888/ICMR 08555
145.	ICPH304	B120/R25	ICMB 11888/ICMR 08888
146.	ICPH305	B120/R34	ICMB 11888/ICMR 09888
147.	ICPH306	B120/R48	ICMB 11888/ICMR 11555
148.	ICPH148	B126/R13	[[HHV-S1-24-3-B-3-2 x (ICMB 91777 x HHVBC)]-5-B-1-1-B-B-B]/ICMR 07555
149.	ICPH147	B126/R22	[[HHV-S1-24-3-B-3-2 x (ICMB 91777 x HHVBC)]-5-B-1-1-B-B-B]/ICMR 08555
150.	ICPH307	B126/R25	[[HHV-S1-24-3-B-3-2 x (ICMB 91777 x HHVBC)]-5-B-1-1-B-B-B]/ICMR 08888
151.	ICPH308	B126/R34	[[HHV-S1-24-3-B-3-2 x (ICMB 91777 x HHVBC)]-5-B-1-1-B-B-B]/ICMR 09888
152.	ICPH309	B126/R48	[[HHV-S1-24-3-B-3-2 x (ICMB 91777 x HHVBC)]-5-B-1-1-B-B-B]/ICMR 11555
153.	ICPH152	B129/R13	[(ICMB 93333 x ICMB 01222)-11-1-B-7-2]/ICMR 07555
154.	ICPH151	B129/R22	[(ICMB 93333 x ICMB 01222)-11-1-B-7-2]/ICMR 08555
155.	ICPH310	B129/R25	[(ICMB 93333 x ICMB 01222)-11-1-B-7-2]/ICMR 08888
156.	ICPH311	B129/R34	[(ICMB 93333 x ICMB 01222)-11-1-B-7-2]/ICMR 09888
157.	ICPH312	B129/R48	[(ICMB 93333 x ICMB 01222)-11-1-B-7-2]/ICMR 11555
158.	ICPH156	B141/R13	[[[(ICMB 95555 x ICMB 94333)-8-2-1-B-B-9-1 x B-bulk (3981-4011/S06 G1)]-2-3-4-B]/ICMR 07555
159.	ICPH155	B141/R22	[[[(ICMB 95555 x ICMB 94333)-8-2-1-B-B-9-1 x B-bulk (3981-4011/S06 G1)]-2-3-4-B]/ICMR 08555
160.	ICPH313	B141/R25	[[[(ICMB 95555 x ICMB 94333)-8-2-1-B-B-9-1 x B-bulk (3981-4011/S06 G1)]-2-3-4-B]/ICMR 08888
161.	ICPH314	B141/R34	[[[(ICMB 95555 x ICMB 94333)-8-2-1-B-B-9-1 x B-bulk (3981-4011/S06 G1)]-2-3-4-B]/ICMR 09888
162.	ICPH315	B141/R48	[[[(ICMB 95555 x ICMB 94333)-8-2-1-B-B-9-1 x B-bulk (3981-4011/S06 G1)]-2-3-4-B]/ICMR 11555
163.	ICPH159	B145/R22	[(HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-1-2]/ICMR 08555
164.	ICPH316	B145/R25	[(HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-1-2]/ICMR 08888
165.	ICPH317	B145/R34	[(HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-1-2]/ICMR 09888
166.	ICPH318	B145/R48	[(HHVDBC HS-246-1-2-1-2 x ICMB 98444)-4-3-1-2]/ICMR 11555

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S. No.	Variety	Cross Code	Pedigree Details
167.	ICPH162	B150/R13	[[[ICMB 97444 x (D2BLN/95-98 x EEBC C1-1)-7-B-B]-34-2-4-B-B-5-B-B]/ICMR 07555
168.	ICPH161	B150/R22	[[[ICMB 97444 x (D2BLN/95-98 x EEBC C1-1)-7-B-B]-34-2-4-B-B-5-B-B]/ICMR 08555
169.	ICPH319	B150/R34	[[[ICMB 97444 x (D2BLN/95-98 x EEBC C1-1)-7-B-B]-34-2-4-B-B-5-B-B]/ICMR 09888
170.	ICPH320	B150/R48	[[[ICMB 97444 x (D2BLN/95-98 x EEBC C1-1)-7-B-B]-34-2-4-B-B-5-B-B]/ICMR 11555
171.	ICPH164	B152/R13	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4]/ICMR 07555
172.	ICPH163	B152/R22	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4]/ICMR 08555
173.	ICPH321	B152/R25	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4]/ICMR 08888
174.	ICPH322	B152/R34	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4]/ICMR 09888
175.	ICPH323	B152/R48	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-145-6-2-4]/ICMR 11555
176.	ICPH166	B153/R13	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-149-5-2-2]/ICMR 07555
177.	ICPH165	B153/R22	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-149-5-2-2]/ICMR 08555
178.	ICPH324	B153/R25	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-149-5-2-2]/ICMR 08888
179.	ICPH325	B153/R34	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-149-5-2-2]/ICMR 09888
180.	ICPH326	B153/R48	[[[(DMR 133 x HTBC 48-B-1-1-1-5)-19-2-B-B x ICMB 04111]-149-5-2-2]/ICMR 11555
181.	ICPH174	B166/R13	[[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-2]/ICMR 07555
182.	ICPH327	B166/R25	[[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-2]/ICMR 08888
183.	ICPH328	B166/R34	[[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-2]/ICMR 09888
184.	ICPH329	B166/R48	[[[(MC 94 S1-34-1-B x HHVBC)-10-4-3-2-2-B-B-2 x (ICMR 312 S1-1-5-3-B x HHVBC)-7-1-1-1-B-B-B]-21-B-1-2]/ICMR 11555
185.	ICPH184	B180/R13	[[[ICMB 93333 x ICMB 01222)-11-2-2-2-B-2-6]/ICMR 07555
186.	ICPH183	B180/R22	[[[ICMB 93333 x ICMB 01222)-11-2-2-2-B-2-6]/ICMR 08555
187.	ICPH330	B180/R25	[[[ICMB 93333 x ICMB 01222)-11-2-2-2-B-2-6]/ICMR 08888
188.	ICPH331	B180/R34	[[[ICMB 93333 x ICMB 01222)-11-2-2-2-B-2-6]/ICMR 09888
189.	ICPH332	B180/R48	[[[ICMB 93333 x ICMB 01222)-11-2-2-2-B-2-6]/ICMR 11555
190.	ICPH188	B182/R13	[[[ICMB 93333 x ICMB 01222)-20-2-B-5-B-4-B]/ICMR 07555
191.	ICPH187	B182/R22	[[[ICMB 93333 x ICMB 01222)-20-2-B-5-B-4-B]/ICMR 08555
192.	ICPH333	B182/R25	[[[ICMB 93333 x ICMB 01222)-20-2-B-5-B-4-B]/ICMR 08888
193.	ICPH334	B182/R34	[[[ICMB 93333 x ICMB 01222)-20-2-B-5-B-4-B]/ICMR 09888
194.	ICPH335	B182/R48	[[[ICMB 93333 x ICMB 01222)-20-2-B-5-B-4-B]/ICMR 11555

Contd.

S. No.	Variety	Cross Code	Pedigree Details
195.	ICPH190	B184/R13	[[[(ICMB 96555 x IP 10437)-9-B-B-B-B-B x IP 14758-2-2]-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1]/ICMR 07555
196.	ICPH189	B184/R22	[[[(ICMB 96555 x IP 10437)-9-B-B-B-B-B x IP 14758-2-2]-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1]/ICMR 08555
197.	ICPH336	B184/R25	[[[(ICMB 96555 x IP 10437)-9-B-B-B-B-B x IP 14758-2-2]-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1]/ICMR 08888
198.	ICPH337	B184/R34	[[[(ICMB 96555 x IP 10437)-9-B-B-B-B-B x IP 14758-2-2]-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1]/ICMR 09888
199.	ICPH338	B184/R48	[[[(ICMB 96555 x IP 10437)-9-B-B-B-B-B x IP 14758-2-2]-19-1-B x (ICMB 96555 x IP 10437)-3-4-1-2-2-1-B-2-B-3]-1-1-1-1-1]/ICMR 11555
200.	ICPH194	B187/R13	[IC-CZBC-C0-60-3-1-2-3 R5-3-B-B]/ICMR 07555
201.	ICPH339	B187/R25	[IC-CZBC-C0-60-3-1-2-3 R5-3-B-B]/ICMR 08888
202.	ICPH340	B187/R34	[IC-CZBC-C0-60-3-1-2-3 R5-3-B-B]/ICMR 09888
203.	ICPH341	B187/R48	[IC-CZBC-C0-60-3-1-2-3 R5-3-B-B]/ICMR 11555
204.	ICPH196	B188/R13	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3]/ICMR 07555
205.	ICPH195	B188/R22	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3]/ICMR 08555
206.	ICPH342	B188/R25	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3]/ICMR 08888
207.	ICPH343	B188/R34	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3]/ICMR 09888
208.	ICPH344	B188/R48	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-1-5-3]/ICMR 11555
209.	ICPH198	B189/R13	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3]/ICMR 07555
210.	ICPH197	B189/R22	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3]/ICMR 08555
211.	ICPH345	B189/R25	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3]/ICMR 08888
212.	ICPH346	B189/R34	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3]/ICMR 09888
213.	ICPH347	B189/R48	[[[(ICMB 95111 x (ICMB 96555 x IP 10437)-3]-7-2-1-B-2-15-1] x B-bulk (3981-3989/S06 G1))-3-2-4-B x HHVDBC HS-155-1-1-1-2-1-1-B)-3-3-1-3]/ICMR 11555
214.	ICPH200	B192/R13	[(ICMB 04888 x HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3]/ICMR 07555
215.	ICPH199	B192/R22	[(ICMB 04888 x HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3]/ICMR 08555
216.	ICPH348	B192/R25	[(ICMB 04888 x HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3]/ICMR 08888
217.	ICPH349	B192/R34	[(ICMB 04888 x HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3]/ICMR 09888
218.	ICPH350	B192/R48	[(ICMB 04888 x HHVDBC HS-10-1-2-1-1-1-2-B)-2-1-4-3]/ICMR 11555
Checks			
1.	PRO9444 Gold		Top selling commercial hybrid from Bayer Bioscience Pvt Ltd. Notification number SO No.122 (E) dated 2.2.2005
2.	Super Boss		Top selling commercial hybrid from Kaveri Seed Company Ltd. Notification number S. O. 2125 (E) dated 10.09.2012
3.	86M88		Top selling commercial hybrid from Corteva Agriscience. Notification number S. O. 1228 (E) dated 7.05.2015

S. No.	Variety	Cross Code	Pedigree Details
4.	86M84		Top selling commercial hybrid from Corteva Agriscience. Notification number S. O. 2238 (E) on 29.06.2016

Annexure 3. Pooled mean performance of 218 pearl millet hybrids based on ICRISAT B-Line genepool for yield and ancillary yield attributes during rainy 2021

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod've Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
1.	ICPH012	B8/R13	51.1***	193.8***	25.5***	19.2***	2.1***	1.54***	0.77**	21.90***
2.	ICPH011	B8/R22	48.1***	211.6***	25.6***	27.4**	2.0***	1.55***	0.78**	23.19***
3.	ICPH203	B8/R25	52.6**	223.8	25.4***	25.3	1.9***	1.75***	0.85***	28.10
4.	ICPH204	B8/R34	51.3***	218.2**	30.0	25.1	1.7*	2.01***	0.70	26.29**
5.	ICPH205	B8/R48	49.1***	207.2***	28.2***	23.2***	1.7**	1.71***	0.77*	25.49**
6.	ICPH016	B12/R13	50.2***	198.6***	28.6**	20.4***	2.2***	1.62***	0.74	22.96***
7.	ICPH015	B12/R22	47.4***	206.1***	26.3***	27.3*	1.7**	1.93***	0.76*	29.96
8.	ICPH206	B12/R25	52.5**	225.2	28.0***	26.9	1.8**	2.11**	0.82***	34.12
9.	ICPH207	B12/R34	50.5***	212.3***	30.3	23.8***	1.7*	1.81***	0.68	21.81***
10.	ICPH208	B12/R48	48.0***	215.9**	29.2*	23.2***	1.6*	1.85***	0.78**	27.30*
11.	ICPH018	B15/R13	51.7***	212.5***	27.7***	20.8***	2.0***	1.68***	0.72	23.80***
12.	ICPH017	B15/R22	49.8***	222.4	28.1***	25.6	1.5	1.61***	0.77**	23.83***
13.	ICPH209	B15/R25	53.5	227.4	25.7***	25.3	1.6	1.96***	0.82***	29.43
14.	ICPH210	B15/R34	51.2***	236.4	31.0	23.3***	1.3	1.76***	0.79***	25.26**
15.	ICPH211	B15/R48	49.7***	229.0	30.4	23.3***	1.7**	2.01***	0.77**	29.92
16.	ICPH020	B16/R13	54.9	210.9***	29.2*	20.3***	1.8**	1.23***	0.80***	19.01***
17.	ICPH019	B16/R22	52.6**	228.8	28.4**	25.8	1.6*	1.84***	0.71	23.65***
18.	ICPH212	B16/R25	54.5	228.3	26.8***	25.3	1.3	1.53***	0.80***	20.78***
19.	ICPH213	B16/R34	53.0*	231.8	31.6	24.1***	1.6	1.98***	0.68	25.56**
20.	ICPH214	B16/R48	52.2***	148.5***	33.1*	18.7***	1.3		0.78**	14.19***
21.	ICPH034	B29/R13	50.7***	196.1***	26.9***	19.5***	2.1***	1.62***	0.82***	25.92**
22.	ICPH033	B29/R22	45.8***	203.2***	27.3***	24.7*	1.6*	2.08***	0.79**	29.97
23.	ICPH215	B29/R25	51.8***	223.1	25.5***	25.5	1.6	2.27	0.80***	34.46
24.	ICPH216	B29/R34	50.0***	211.7***	29.7	22.9***	1.5	1.82***	0.77**	25.39**
25.	ICPH217	B29/R48	46.8***	206.2***	28.2***	22.9***	1.8**	2.15**	0.74	29.55

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
26.	ICPH036	B30/R13	51.8***	204.4***	29.8	18.6***	2.2***	1.45***	0.84***	23.30***
27.	ICPH035	B30/R22	48.6***	203.1***	29.1*	24.8*	1.7**	1.75***	0.75*	23.97***
28.	ICPH218	B30/R25	53.0*	226.0	26.8***	24.3**	1.7*	1.83***	0.75*	23.88***
29.	ICPH219	B30/R34	51.5***	214.7***	32.2	22.3***	1.6*	1.86***	0.84***	26.58**
30.	ICPH220	B30/R48	48.9***	217.3**	31.5	21.2***	1.8**	2.00***	0.75*	28.39
31.	ICPH042	B33/R13	52.9*	223.2	30.1	20.5***	1.6	1.82***	0.79**	27.04*
32.	ICPH041	B33/R22	51.6***	231.6	31.7	26.1	1.4	2.21*	0.72	29.76
33.	ICPH221	B33/R25	53.8	230.8	32.2	24.7*	1.3	1.69***	0.81***	26.32**
34.	ICPH222	B33/R34	51.8***	229.1	34.6***	23.9***	1.1	2.23*	0.75*	29.74
35.	ICPH223	B33/R48	49.7***	219.9*	32.1	22.2***	1.4	1.83***	0.77**	27.86*
36.	ICPH048	B36/R13	50.7***	190.4***	28.2***	17.4***	2.3***	1.43***	0.83***	22.25***
37.	ICPH047	B36/R22	48.1***	208.4***	28.6**	24.3**	2.0***	1.84***	0.79**	25.75**
38.	ICPH224	B36/R25	51.4***	217.9**	26.5***	23.8***	1.8**	1.97***	0.77**	28.47
39.	ICPH225	B36/R34	50.4***	211.2***	30.4	22.8***	1.9***	2.00***	0.76*	27.96
40.	ICPH226	B36/R48	49.3***	212.9***	30.0	21.4***	1.7**	1.91***	0.78**	28.05
41.	ICPH058	B44/R13	52.7**	212.0***	30.9	21.1***	1.7**	1.86***	0.79***	27.72*
42.	ICPH057	B44/R22	50.6***	213.1***	30.8	25.1	1.5	1.79***	0.79***	27.21*
43.	ICPH227	B44/R25	52.9**	220.2*	28.8**	26.8	1.4	2.20**	0.82***	34.98
44.	ICPH228	B44/R34	51.4***	209.5***	33.2*	23.5***	1.4	1.94***	0.80***	28.63
45.	ICPH229	B44/R48	50.0***	207.1***	30.7	23.2***	1.5	1.94***	0.80***	30.67
46.	ICPH230	B48/R13	50.9***	190.9***	29.1*	19.0***	1.9***	1.66***	0.79***	26.52**
47.	ICPH231	B48/R22	48.7***	213.2***	28.7**	25.4	1.7**	1.99***	0.79***	28.53
48.	ICPH232	B48/R25	52.5**	255.7***	29.1**	26.1	1.7*	2.08***	0.74	30.03
49.	ICPH233	B48/R34	51.4***	214.6***	30.9	23.3***	1.7*	1.96***	0.76*	25.97**
50.	ICPH234	B48/R48	48.0***	201.7***	30.4	22.5***	1.8**	1.91***	0.78**	26.86**
51.	ICPH062	B49/R13	54.4	218.9*	30.7	22.6***	2.1***	1.94***	0.77**	28.62
52.	ICPH061	B49/R22	54.2	225.1	30.9	28.2***	1.2	1.69***	0.71	20.33***
53.	ICPH235	B49/R25	54.4	234.7	27.4***	27.4*	1.5	2.20**	0.79**	32.71
54.	ICPH236	B49/R34	54.0	221.6	33.3**	26.0	1.3	1.76***	0.75	23.66***
55.	ICPH237	B49/R48	53.5	230.5	32.6	25.7	1.3	2.15**	0.75*	31.01
56.	ICPH238	B54/R13	53.2	198.2***	27.4***	19.5***	1.8**	2.10***	0.77**	31.50
57.	ICPH239	B54/R25	52.7*	236.3	24.0***	24.1***	1.7**	2.41	0.74	34.82
58.	ICPH240	B54/R34	51.7***	220.8*	30.2	22.1***	1.7**	2.04***	0.72	27.12*

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
59.	ICPH241	B54/R48	50.0***	218.3**	28.9**	21.8***	2.1***	2.03***	0.83***	31.77
60.	ICPH066	B55/R13	53.4	220.8*	28.3***	21.6***	2.0***	2.01***	0.84***	30.67
61.	ICPH065	B55/R22	52.2**	224.7	28.9**	29.8***	1.7*	2.14**	0.74	27.53*
62.	ICPH242	B55/R25	55.0	234.8	28.3***	29.6***	1.5	2.19**	0.74*	31.73
63.	ICPH243	B55/R34	53.9	225.0	31.8	27.0	1.4	1.93***	0.79**	26.26**
64.	ICPH244	B55/R48	51.7***	225.2	31.9	26.7	1.4	2.25*	0.80***	31.63
65.	ICPH068	B57/R13	50.5***	207.2***	31.1	20.9***	1.9***	1.60***	0.72	22.58***
66.	ICPH067	B57/R22	50.1***	206.9***	31.2	25.0	1.4	2.15**	0.81***	31.17
67.	ICPH245	B57/R25	52.7**	227.8	28.9**	26.4	1.5	1.96***	0.82***	29.09
68.	ICPH246	B57/R34	51.9***	212.7***	34.9***	24.1***	1.5	2.02***	0.78**	28.01
69.	ICPH247	B57/R48	47.7***	212.5***	32.2	22.5***	1.5	1.83***	0.79***	27.35*
70.	ICPH094	B75/R13	51.9***	204.5***	30.9	20.6***	1.7*	2.02***	0.80***	30.16
71.	ICPH093	B75/R22	51.1***	214.6***	31.0	24.2***	1.6*	2.29	0.77**	34.56
72.	ICPH248	B75/R25	53.6	216.2**	28.7**	23.2***	1.6*	2.12**	0.75*	29.98
73.	ICPH249	B75/R34	52.1***	213.4***	33.0*	21.2***	1.8**	1.78***	0.78**	24.68***
74.	ICPH250	B75/R48	49.6***	209.0***	31.6	22.2***	1.7**	1.87***	0.77**	26.59**
75.	ICPH100	B82/R13	52.6**	204.8***	28.6**	22.3***	2.0***	1.91***	0.80***	27.44*
76.	ICPH099	B82/R22	51.2***	218.4**	28.4***	28.1***	1.5	2.44	0.77**	34.26
77.	ICPH251	B82/R25	53.7	232.3	27.4***	28.9***	1.5	2.15**	0.69	29.01
78.	ICPH252	B82/R34	52.3***	221.7*	31.6	24.2***	1.2	1.95***	0.73	24.89***
79.	ICPH253	B82/R48	49.9***	208.8***	30.3	24.7*	1.5	2.09***	0.68	25.94**
80.	ICPH106	B87/R13	48.7***	197.0***	28.5**	20.2***	2.0***	1.92***	0.71	27.58*
81.	ICPH105	B87/R22	47.7***	208.7***	29.4*	23.9***	1.4	1.84***	0.77**	26.88**
82.	ICPH254	B87/R25	49.8***	212.0***	27.8***	24.8*	1.6	2.29	0.84***	34.88
83.	ICPH255	B87/R34	51.3***	225.9	31.4	23.6***	1.8**	2.02***	0.76**	26.89**
84.	ICPH256	B87/R48	48.3***	199.8***	30.0	21.9***	1.8**	1.78***	0.80***	27.02*
85.	ICPH108	B88/R13	51.8***	195.6***	29.3*	20.7***	1.8**	1.93***	0.76**	29.07
86.	ICPH107	B88/R22	50.2***	201.2***	28.6**	25.2	1.6*	2.09***	0.73	28.32
87.	ICPH257	B88/R25	52.8**	211.1***	28.4**	25.1	1.4	2.05***	0.80***	30.67
88.	ICPH258	B88/R34	52.0***	209.0***	31.6	24.2***	1.6	1.86***	0.76*	26.75**
89.	ICPH259	B88/R48	49.1***	199.9***	30.3	22.4***	1.5	1.84***	0.81***	27.01*
90.	ICPH114	B91/R13	49.7***	191.0***	26.3***	19.6***	1.8**	1.58***	0.74	19.80***
91.	ICPH113	B91/R22	48.0***	213.0***	26.1***	25.7	1.8**	2.08***	0.75*	29.93

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
92.	ICPH260	B91/R25	51.0***	215.9***	26.5***	25.4	1.8**	2.09***	0.76**	30.31
93.	ICPH261	B91/R34	49.8***	216.0**	30.5	23.0***	1.9***	2.12**	0.79**	31.63
94.	ICPH262	B91/R48	48.8***	220.8*	28.8**	23.6***	1.7*	2.03***	0.82***	31.11
95.	ICPH116	B92/R13	53.3	200.1***	29.8	21.2***	1.9***	1.60***	0.80***	24.75***
96.	ICPH115	B92/R22	51.1***	217.6**	28.9**	28.8***	1.3	2.10**	0.79***	30.51
97.	ICPH263	B92/R25	53.9	241.6	28.4***	27.7**	1.4	2.21*	0.77*	33.35
98.	ICPH264	B92/R34	51.9***	224.9	31.8	26.2	1.4	1.96***	0.74	26.10**
99.	ICPH265	B92/R48	48.7***	221.6	29.8	25.5	1.5	2.39	0.80***	36.35
100.	ICPH120	B95/R13	51.9***	195.2***	29.6	22.0***	1.6	1.88***	0.78**	27.31*
101.	ICPH119	B95/R22	50.6***	210.2***	30.4	26.3	1.5	2.01***	0.75*	25.78**
102.	ICPH266	B95/R25	52.3***	220.0*	29.7	27.8**	1.5	2.07***	0.74	29.30
103.	ICPH267	B95/R34	51.2***	212.1***	35.1***	24.9*	1.5	1.98***	0.73	27.76*
104.	ICPH268	B95/R48	49.3***	198.4***	31.6	23.8***	1.7*	1.99***	0.70	26.43**
105.	ICPH269	B96/R13	52.6**	200.0***	29.6	20.1***	1.5	1.64***	0.85***	25.92**
106.	ICPH270	B96/R22	51.6***	228.1	30.5	27.7**	1.5	1.95***	0.75*	28.37
107.	ICPH271	B96/R25	53.7		30.0	26.2	1.6	2.52	0.82***	36.37
108.	ICPH272	B96/R34	53.2	220.3*	32.8	24.1***	1.4	1.88***	0.77**	23.45***
109.	ICPH273	B96/R48	49.4***	227.7	32.9*	24.6**	1.4	2.18**	0.78**	33.50
110.	ICPH122	B97/R13	54.8	207.8***	30.8	20.3***	2.1***	1.78***	0.84***	28.83
111.	ICPH274	B97/R25	56.0**	228.9	30.1	24.4**	1.6	2.05***	0.81***	32.00
112.	ICPH275	B97/R34	54.9	227.1	31.0	21.7***	1.7*	1.96***	0.79***	28.12
113.	ICPH276	B97/R48	54.2	230.3	31.9	22.5***	1.4	2.04***	0.79***	29.56
114.	ICPH124	B99/R13	55.0	243.6*	29.1*	25.4	1.6*	2.43	0.78**	33.35
115.	ICPH123	B99/R22	54.9	251.9***	28.9**	31.5***	1.2	2.26*	0.74	32.07
116.	ICPH277	B99/R25	55.9**	254.4***	27.8***	31.9***	1.3	2.33	0.77**	35.69
117.	ICPH278	B99/R34	55.6*	260.8***	31.9	31.3***	1.2	2.01***	0.70	25.27**
118.	ICPH279	B99/R48	52.2***	249.9***	29.6	30.2***	1.3	2.06***	0.77**	28.57
119.	ICPH280	B101/R13	54.4	220.5*	32.7	22.6***	1.6	1.86***	0.78**	26.49**
120.	ICPH281	B101/R22	53.4	219.1*	32.4	28.9***	1.2	1.91***	0.78**	28.77
121.	ICPH282	B101/R25	54.5	226.8	31.0	29.9***	1.1	2.17**	0.79***	31.70
122.	ICPH283	B101/R34	52.4**	219.3**	36.0***	27.2*	1.2	1.88***	0.74	25.75**
123.	ICPH284	B101/R48	51.1***	217.1**	35.0***	26.0	1.3	2.10***	0.80***	31.03
124.	ICPH285	B107/R22	53.1*	215.3***	25.9***	26.8	1.7*	1.87***	0.74	25.60**

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
125.	ICPH286	B107/R25	56.1**	240.7	24.6***	27.4**	2.2***	2.28	0.80***	35.78
126.	ICPH287	B107/R34	54.2	237.3	29.5*	25.8	1.7**	1.86***	0.76**	26.48**
127.	ICPH288	B107/R48	53.7	235.8	27.9***	24.1***	1.8**	2.03***	0.82***	30.46
128.	ICPH289	B110/R25		239.3	27.4***	30.4***	1.3	2.05***	0.77**	29.07
129.	ICPH290	B110/R34	56.7***	237.2	33.1*	29.6***	1.3	1.69***	0.72	21.41***
130.	ICPH291	B110/R48	55.8*	233.4	32.3	27.6**	1.5	2.01***	0.75*	27.08*
131.	ICPH292	B111/R22	49.6***	221.3*	26.6***	27.3*	1.7**	2.04***	0.75*	28.98
132.	ICPH293	B111/R25	52.7**	227.8	25.8***	27.6**	2.0***	2.20**	0.83***	33.32
133.	ICPH294	B111/R34	51.2***	223.3	30.8	24.8*	1.8**	2.14**	0.75*	29.97
134.	ICPH295	B111/R48	50.0***	218.0**	29.0**	23.7***	1.6*	2.06***	0.82***	33.29
135.	ICPH137	B115/R22	51.3***	214.9**	28.0***	27.3*	1.7**	2.00***	0.79***	29.97
136.	ICPH296	B115/R25	54.4	224.9	28.3***	29.1***	1.9***	2.37	0.81***	36.74
137.	ICPH297	B115/R34	51.6***	211.9***	30.6	25.2	1.7**	1.89***	0.80***	25.87**
138.	ICPH298	B115/R48	50.0***	217.0**	29.1*	25.2	1.8**	2.12**	0.74	30.40
139.	ICPH299	B118/R13	54.5	221.9	30.9	26.8	1.9***	1.35***	0.71	15.90***
140.	ICPH300	B118/R22	52.6**	223.1	29.5	33.7***	1.3	1.70***	0.75*	25.52**
141.	ICPH301	B118/R25	55.1	231.1	26.7***	33.1***	1.5	2.06***	0.71	27.63*
142.	ICPH302	B118/R34	54.0	227.4	32.6	30.9***	1.5	1.86***	0.70	24.19***
143.	ICPH303	B118/R48	51.4***	232.4	32.5	30.0***	1.7*	1.96***	0.73	28.97
144.	ICPH143	B120/R22	47.2***	210.0***	27.5***	24.5**	1.6	1.68***	0.74	24.97***
145.	ICPH304	B120/R25	53.7	233.2	27.6***	25.0	1.5	1.69***	0.77**	25.71**
146.	ICPH305	B120/R34	50.1***	220.6*	31.1	23.5***	1.7**	1.73***	0.73	23.63***
147.	ICPH306	B120/R48	47.6***	203.4***	29.6	21.0***	1.7**	1.69***	0.78**	25.54**
148.	ICPH148	B126/R13	53.0*	221.4*	32.1	22.0***	2.4***	2.11**	0.79**	31.17
149.	ICPH147	B126/R22	51.2***	215.7***	32.6	28.2***	1.5	2.16**	0.79***	32.34
150.	ICPH307	B126/R25	53.7	221.2*	31.9	28.9***	1.4	2.47	0.79***	36.79
151.	ICPH308	B126/R34	51.9***	219.9*	35.3***	26.3	1.3	2.17**	0.78**	31.09
152.	ICPH309	B126/R48	49.4***	216.7**	33.3**	26.0	1.3	2.02***	0.77*	28.73
153.	ICPH152	B129/R13	55.0	209.3***	29.6	21.2***	2.1***	1.69***	0.79***	24.43***
154.	ICPH151	B129/R22	53.8	227.1	30.5	25.8	1.5	2.30	0.74	31.52
155.	ICPH310	B129/R25	55.0	232.2	27.4***	25.7	1.7**	2.25*	0.78**	32.15
156.	ICPH311	B129/R34	54.1	226.8	33.6**	24.9*	1.4	1.74***	0.76**	23.03***
157.	ICPH312	B129/R48	52.6**	234.1	31.9	24.3**	1.8**	2.06***	0.81***	29.73

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
158.	ICPH156	B141/R13	50.5***	219.2*	26.9***	20.7***	1.9***	1.86***	0.83***	30.61
159.	ICPH155	B141/R22	48.6***	217.8**	27.0***	24.6**	1.7**	1.86***	0.81***	29.53
160.	ICPH313	B141/R25	52.4***	229.3	26.6***	23.6***	1.6	1.96***	0.76*	26.29**
161.	ICPH314	B141/R34	52.1***	230.7	30.2	22.2***	1.7**	2.03***	0.72	26.99*
162.	ICPH315	B141/R48	50.3***	226.6	29.0**	22.1***	1.7**	1.89***	0.74*	27.02*
163.	ICPH159	B145/R22	52.5**	233.3	30.8	27.1	1.6*	2.12**	0.81***	30.39
164.	ICPH316	B145/R25	55.8*	234.6	28.1***	27.9***	1.4	2.08***	0.79**	31.38
165.	ICPH317	B145/R34	54.1	246.4**	33.6**	25.4	1.2	2.08***	0.73	27.25*
166.	ICPH318	B145/R48	53.1*	236.3	32.8	24.3**	1.5	2.22*	0.80***	32.90
167.	ICPH162	B150/R13	51.6***	200.0***	27.7***	19.0***	2.0***	1.81***	0.84***	29.70
168.	ICPH161	B150/R22	50.6***	207.1***	27.2***	23.8***	2.1***	1.78***	0.81***	24.58***
169.	ICPH319	B150/R34	51.6***	217.4**	31.5	23.6***	1.7*	1.93***	0.71	25.38**
170.	ICPH320	B150/R48	50.5***	212.2***	29.9	23.9***	1.9***	2.04***	0.80***	29.89
171.	ICPH164	B152/R13	53.7	205.2***	27.1***	20.6***	1.7*	1.69***	0.80***	25.58**
172.	ICPH163	B152/R22	51.5***	229.4	28.1***	28.4***	1.7**	2.08***	0.72	26.07**
173.	ICPH321	B152/R25	54.3	227.9	25.7***	27.1	1.5	2.41	0.80***	34.46
174.	ICPH322	B152/R34	53.4	228.2	31.5	25.5	1.6	2.19**	0.75*	28.53
175.	ICPH323	B152/R48	54.8	228.6	30.3	24.3**	1.6	1.93***	0.78**	25.71**
176.	ICPH166	B153/R13	52.0***	217.5**	28.6**	20.8***	2.0***	2.03***	0.81***	31.99
177.	ICPH165	B153/R22	52.3***	222.4	27.4***	26.1	1.4	1.96***	0.73	25.98**
178.	ICPH324	B153/R25	54.5	231.3	25.8***	27.5**	1.5	2.15**	0.78**	33.09
179.	ICPH325	B153/R34	53.1*	227.6	31.7	25.5	1.5	2.24*	0.78**	31.39
180.	ICPH326	B153/R48	53.0*	221.7*	30.3	24.6**	1.5	2.12**	0.73	28.13
181.	ICPH174	B166/R13	54.6	222.8	31.2	22.8***	1.9***	2.32	0.77**	33.74
182.	ICPH327	B166/R25	55.0	239.6	29.9	26.2	1.4	2.45	0.74	34.34
183.	ICPH328	B166/R34	53.4	221.0*	33.5**	24.0***	1.5	2.23*	0.76*	33.19
184.	ICPH329	B166/R48	52.7**	224.5	33.7**	25.1	1.5	2.04***	0.84***	30.38
185.	ICPH184	B180/R13	55.3	209.1***	30.0	20.9***	1.8**	1.62***	0.82***	24.86***
186.	ICPH183	B180/R22	53.1	227.8	30.5	25.6	1.6	2.14**	0.80***	31.21
187.	ICPH330	B180/R25	55.0	229.3	28.4***	24.2***	1.7**	2.26*	0.73	31.56
188.	ICPH331	B180/R34	53.9	229.8	31.2	23.2***	1.6*	2.17**	0.71	29.70
189.	ICPH332	B180/R48	52.5**	233.5	32.3	23.6***	1.7*	2.01***	0.84***	33.65
190.	ICPH188	B182/R13	51.6***	160.8***	28.1***	19.1***	1.7**	1.10***	0.83***	19.83***

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
191.	ICPH187	B182/R22	49.2***	220.2*	28.6**	26.9	1.9***	2.00***	0.79***	29.48
192.	ICPH333	B182/R25	53.2	237.1	28.3***	27.1	1.6	2.13**	0.72	29.79
193.	ICPH334	B182/R34	51.4***	228.2	30.1	24.8*	1.6	2.17**	0.77**	30.88
194.	ICPH335	B182/R48	50.8***	227.4	30.3	24.2***	1.7**	2.24*	0.76*	32.12
195.	ICPH190	B184/R13	50.1***	176.4***	27.6***	19.4***	2.0***	1.73***	0.84***	27.91
196.	ICPH189	B184/R22	47.7***	199.2***	26.6***	24.3**	1.8**	2.20**	0.84***	35.17
197.	ICPH336	B184/R25	51.0***	202.0***	26.5***	25.1	1.8**	2.12**	0.76*	31.28
198.	ICPH337	B184/R34	49.9***	203.7***	29.4*	23.3***	1.7**	2.09***	0.71	28.22
199.	ICPH338	B184/R48	47.3***	195.1***	28.6**	21.3***	1.8**	1.92***	0.79**	27.85*
200.	ICPH194	B187/R13	55.7*	207.0***	33.4**	21.7***	1.6	1.49***	0.78**	22.83***
201.	ICPH339	B187/R25	57.5***	236.7	31.6	28.3***	1.7**	2.06***	0.82***	31.08
202.	ICPH340	B187/R34	55.8**	218.4**	36.4***	26.9	1.7*	1.59***	0.80**	23.89***
203.	ICPH341	B187/R48	53.7	226.2	34.6***	25.8	1.5	1.93***	0.80***	29.73
204.	ICPH196	B188/R13	54.9	232.1	30.8	21.2***	1.9***	2.10***	0.78**	32.11
205.	ICPH195	B188/R22	53.4	237.5	29.8	27.0	1.5	2.12**	0.79***	33.22
206.	ICPH342	B188/R25	56.2***	245.5**	30.2	26.1	1.4	2.70	0.80***	41.44***
207.	ICPH343	B188/R34	57.1***	243.6*	33.0*	25.3	1.5	2.19**	0.75*	31.46
208.	ICPH344	B188/R48	54.1	239.1	33.9**	24.8*	1.4	2.49	0.82***	37.78*
209.	ICPH198	B189/R13	54.1	210.3***	30.8	22.2***	2.0***	2.06***	0.78**	28.95
210.	ICPH197	B189/R22	54.0	207.5***	32.0	27.6**	1.5	2.33	0.74	32.64
211.	ICPH345	B189/R25	56.3***	218.5**	30.4	26.8	1.6*	2.33	0.72	30.66
212.	ICPH346	B189/R34	55.5*	210.8***	33.5**	26.0	1.6	2.01***	0.73	28.13
213.	ICPH347	B189/R48	52.5**	204.7***	34.7***	25.6	1.5	1.75***	0.78**	24.51***
214.	ICPH200	B192/R13	48.5***	207.0***	28.7**	22.5***	2.0***	1.92***	0.78**	29.58
215.	ICPH199	B192/R22	49.7***	213.3***	29.6	26.3	1.5	1.94***	0.79**	29.32
216.	ICPH348	B192/R25	51.8***	218.9*	28.0***	28.8***	1.5	2.21*	0.76**	30.67
217.	ICPH349	B192/R34	50.4***	210.1***	31.4	25.6	1.5	2.13**	0.81***	32.44
218.	ICPH350	B192/R48	51.0***	201.3***	30.9	26.0	1.5	2.19**	0.68	29.40
219.	9444 Gold		49.5***	194.9***	28.3***	22.1***	1.7**	2.15**	0.73	28.15
220.	KSB		55.2	240.7	32.0	26.9	1.4	2.40	0.77**	33.22
221.	86M88		51.9***	220.8*	31.5	23.8***	1.5	2.43	0.75*	32.15
222.	86M84		54.3	231.7	31.2	26.0	1.2	2.54	0.67	32.81
Minimum:			45.8	149	24.0	17.4	1.1	1.10	0.67	14.2

S.No.	Variety	Cross	Days to Flower (days)	Plant Height (cm)	Panicle Girth (mm)	Panicle Length (cm)	Prod'Ve Tillers (Count)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
Maximum:			57.5	261	36.4	33.7	2.4	2.70	0.85	41.4
Mean:			52.1	219	29.9	24.6	1.6	1.99	0.77	28.6

*Test of significance vs. most relevant check 86M84 @ level of significance 0.05, 0.01 and 0.001.

Annexure 4. Specific Combining Ability (SCA) effects in 218 pearl millet hybrids derived from the ICRISAT B-line gene pool evaluated during the 2021 rainy season

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
1	ICPH012	B8/R13	0.26	-4.44	-1.08 **	-0.83	-0.03	0.04	-0.02	-1.10
2	ICPH011	B8/R22	-0.88 *	2.14	1.45 **	-0.45	0.06	-0.18	0.01	-1.77
3	ICPH203	B8/R25	0.50	3.16	-0.82 *	0.43	0.04	-0.12	0.07 **	0.24
4	ICPH204	B8/R34	0.48	3.82	0.97 *	0.93	-0.04	0.31 **	-0.05 *	2.86
5	ICPH205	B8/R48	0.04	-2.05	-0.17	0.15	-0.04	-0.03	-0.01	0.03
6	ICPH016	B12/R13	0.11	-0.29	-0.16	0.72	0.04	-0.04	-0.04	-2.28
7	ICPH015	B12/R22	-0.92 *	-4.02	1.06 **	-1.21 *	-0.01	0.05	0.01	2.76
8	ICPH206	B12/R25	1.15 **	3.81	0.51	1.45 *	0.02	0.09	0.06 *	4.02 *
9	ICPH207	B12/R34	0.36	-2.85	-0.61	-0.32	-0.01	-0.04	-0.06 *	-3.85 *
10	ICPH208	B12/R48	-0.29	5.99 *	-0.44	-0.42	-0.05	-0.05	0.02	-0.40
11	ICPH018	B15/R13	0.09	-0.35	0.89 *	-0.24	0.04	0.08	-0.07 **	-0.66
12	ICPH017	B15/R22	0.08	-1.62	-0.01	0.41	-0.02	-0.20 *	0.00	-2.59
13	ICPH209	B15/R25	0.68	-7.94 **	-0.41	-0.94	0.02	0.00	0.04	0.11
14	ICPH210	B15/R34	-0.44	7.42 *	-0.42	0.30	-0.09	-0.04	0.04	0.39
15	ICPH211	B15/R48	-0.01	5.13	0.31	0.69	0.05	0.17	-0.01	3.01
16	ICPH020	B16/R13	1.07 **	13.91 **	1.23 **	-0.02	-0.01	-0.20 *	0.03	0.37
17	ICPH019	B16/R22	0.55	20.61 **	1.05 **	-0.48	0.06	0.18	-0.04	3.04
18	ICPH212	B16/R25	-0.56	8.88 **	0.41	-1.11	-0.05	-0.28 **	0.04	-2.73
19	ICPH213	B16/R34	-0.83 *	18.72 **	1.17 **	-0.35	0.06	0.34 **	-0.06 *	6.49 **
20	ICPH214	B16/R48	0.17	-59.49 **	-3.50 **	2.18 **	-0.07	.	0.02	-6.91 **
21	ICPH034	B29/R13	1.33 **	0.74	0.12	-0.03	0.05	-0.16	0.02	-1.15
22	ICPH033	B29/R22	-1.77 **	-3.34	-0.36	0.69	-0.01	0.08	0.01	0.94
23	ICPH215	B29/R25	1.13 **	5.28	0.36	-0.03	-0.04	0.12	0.01	2.53
24	ICPH216	B29/R34	0.54	0.15	-0.23	0.04	-0.04	-0.16	0.01	-2.09
25	ICPH217	B29/R48	-0.82 *	-0.20	0.46	-0.46	0.04	0.13	-0.05 *	0.03
26	ICPH036	B30/R13	0.63	3.97	0.07	0.55	0.05	-0.12	0.04	0.07
27	ICPH035	B30/R22	-0.72	-8.47 **	0.60	0.15	-0.02	-0.04	-0.02	-1.22
28	ICPH218	B30/R25	0.65	3.12	0.06	-1.16 *	-0.02	-0.11	-0.04	-4.21 *
29	ICPH219	B30/R34	0.31	-1.85	0.00	0.17	-0.04	0.09	0.07 **	2.93
30	ICPH220	B30/R48	-0.46	5.86 *	-0.38	0.50	0.02	0.19	-0.04	2.70
31	ICPH042	B33/R13	0.55	9.00 **	0.73	-1.46 *	-0.03	0.08	0.01	0.89
32	ICPH041	B33/R22	1.06 **	6.15 *	0.69	0.52	0.06	0.24 *	-0.04	1.64
33	ICPH221	B33/R25	0.26	-5.87 *	-0.83 *	1.99 **	0.00	-0.43 **	0.04	-4.69 **

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
34	ICPH222	B33/R34	-0.58	-1.30	0.34	0.29	-0.06	0.29 **	0.00	3.17
35	ICPH223	B33/R48	-0.89 *	-5.34	-0.58	-1.13	0.02	-0.16	-0.01	-0.75
36	ICPH048	B36/R13	0.37	-5.08	-0.77	0.08	0.02	-0.19 *	0.03	-2.26
37	ICPH047	B36/R22	-0.46	1.77	0.42	0.78	0.03	-0.01	0.01	-0.71
38	ICPH224	B36/R25	-0.21	-0.06	-0.22	-0.27	-0.04	-0.02	-0.02	-0.90
39	ICPH225	B36/R34	-0.02	-0.38	0.76	-0.47	0.03	0.18	0.00	3.03
40	ICPH226	B36/R48	0.72	6.39 *	0.15	0.10	-0.05	0.05	-0.01	1.09
41	ICPH058	B44/R13	0.78 *	12.31 **	0.88 *	0.65	-0.01	0.12	-0.03	-0.13
42	ICPH057	B44/R22	0.53	2.24	-0.82 *	0.86	0.02	-0.17	0.00	-2.60
43	ICPH227	B44/R25	-0.29	-1.95	0.85 *	-0.12	-0.03	0.09	0.02	2.27
44	ICPH228	B44/R34	-0.53	-6.39 *	-0.48	0.18	-0.01	0.00	0.02	0.36
45	ICPH229	B44/R48	-0.10	-3.57	-0.08	-1.35 *	0.02	-0.04	-0.01	0.36
46	ICPH230	B48/R13	0.19	-11.61 **	-0.53	0.05	-0.04	-0.05	0.00	0.93
47	ICPH231	B48/R22	-0.17	-0.52	0.17	-0.02	0.02	0.06	0.02	0.98
48	ICPH232	B48/R25	0.60	30.72 **	0.75	1.39 *	-0.01	0.00	-0.04	-0.42
49	ICPH233	B48/R34	0.64	-4.08	-0.01	-0.82	0.00	0.06	0.01	-0.05
50	ICPH234	B48/R48	-0.86 *	-11.87 **	-0.03	-0.38	0.02	-0.04	0.00	-1.19
51	ICPH062	B49/R13	-0.11	5.42	0.39	0.33	0.13 *	0.20 *	0.00	3.35
52	ICPH061	B49/R22	1.49 **	0.41	0.26	0.85	-0.07	-0.27 **	-0.04	-6.91 **
53	ICPH235	B49/R25	-1.29 **	-1.25	-0.63	-1.67 **	0.04	0.09	0.03	2.58
54	ICPH236	B49/R34	-0.52	-7.97 **	-0.06	0.17	-0.04	-0.18	0.02	-2.04
55	ICPH237	B49/R48	0.84 *	6.01 *	0.40	0.53	-0.07	0.17	0.00	3.28
56	ICPH238	B54/R13	0.86 *	-7.53 **	1.37 **	0.39	-0.10 *	0.17	-0.01	2.19
58	ICPH239	B54/R25	-0.78 *	8.16 **	0.14	-1.70 **	-0.02	0.10	-0.03	0.65
59	ICPH240	B54/R34	-0.57	-1.05	0.19	0.48	0.00	-0.09	-0.03	-2.61
60	ICPH241	B54/R48	-0.51	1.57	0.60	0.12	0.10	-0.15	0.06 *	0.00
61	ICPH066	B55/R13	-0.29	7.36 *	-1.56 **	-0.98	0.06	0.12	0.04	3.10
62	ICPH065	B55/R22	0.38	0.09	0.96 *	-0.02	0.04	0.03	-0.03	-2.01
63	ICPH242	B55/R25	0.15	-1.06	0.57	0.45	0.00	-0.08	-0.05	-0.70
64	ICPH243	B55/R34	0.25	-4.55	-0.03	-0.20	-0.05	-0.16	0.03	-1.73
65	ICPH244	B55/R48	-0.09	0.79	0.42	0.96	-0.06	0.11	0.01	1.60
66	ICPH068	B57/R13	-0.52	6.49 *	0.86 *	0.04	0.03	-0.10	-0.08 **	-3.07
67	ICPH067	B57/R22	0.89 *	-5.03	-0.72	0.48	-0.04	0.23 *	0.03	3.56 *
68	ICPH245	B57/R25	0.54	4.62	0.55	-0.78	-0.01	-0.11	0.03	-1.42
69	ICPH246	B57/R34	0.94 *	-4.21	0.24	1.12	0.00	0.12	0.02	1.94
70	ICPH247	B57/R48	-1.44 **	0.76	-0.58	-0.64	0.00	-0.12	0.00	-0.75
71	ICPH094	B75/R13	-0.17	5.63	2.06 **	0.45	-0.10 *	0.21 *	0.01	2.96
72	ICPH093	B75/R22	0.84 *	4.56	-0.04	0.87	-0.01	0.26 **	0.00	5.40 **
73	ICPH248	B75/R25	0.33	-5.11	-1.11 **	-0.37	0.00	-0.06	-0.03	-2.08
74	ICPH249	B75/R34	0.05	-1.59	-1.19 **	-0.21	0.07	-0.22 *	0.02	-2.94
75	ICPH250	B75/R48	-0.65	-0.87	0.63	-0.52	0.03	-0.17	0.00	-3.07
76	ICPH100	B82/R13	0.29	0.34	0.43	0.00	0.08	0.01	0.05 *	1.12
77	ICPH099	B82/R22	0.71	2.66	0.52	0.04	-0.01	0.32 **	0.04	5.98 **

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
78	ICPH251	B82/R25	0.12	5.34	1.16 **	0.08	0.02	-0.11	-0.05	-2.16
79	ICPH252	B82/R34	-0.11	1.01	-1.52 **	0.23	-0.09	-0.15	0.02	-1.84
80	ICPH253	B82/R48	-0.60	-6.73 *	-0.22	-0.13	0.01	-0.05	-0.06 *	-2.84
81	ICPH106	B87/R13	-0.88 *	1.01	1.01 *	-0.33	0.02	0.16	-0.08 **	0.93
82	ICPH105	B87/R22	-0.06	1.51	-0.90 *	0.88	-0.11 *	-0.14	0.00	-1.74
83	ICPH254	B87/R25	-0.93 *	-6.45 *	-0.17	0.30	-0.03	0.16	0.06 *	3.36
84	ICPH255	B87/R34	1.74 **	13.75 **	0.66	-0.11	0.07	0.06	0.01	-0.19
85	ICPH256	B87/R48	0.54	-7.18 *	-0.25	-0.53	0.04	-0.22 *	0.02	-2.10
86	ICPH108	B88/R13	0.24	4.94	0.92 *	0.25	-0.02	0.18	-0.02	2.70
87	ICPH107	B88/R22	0.45	-0.70	-0.24	-0.10	0.03	0.13	-0.04	-0.01
88	ICPH257	B88/R25	0.03	-2.03	-0.49	0.71	-0.04	-0.07	0.02	-0.56
89	ICPH258	B88/R34	0.34	2.17	0.60	-0.17	0.03	-0.08	0.01	-0.04
90	ICPH259	B88/R48	-0.66	-1.75	-0.43	-0.47	-0.01	-0.14	0.03	-1.82
91	ICPH114	B91/R13	-0.20	-7.64 **	-0.09	-0.69	-0.10 *	-0.20 *	-0.05 *	-6.77 **
92	ICPH113	B91/R22	-0.08	3.16	0.27	-0.63	0.02	0.09	-0.02	1.40
93	ICPH260	B91/R25	-0.03	-5.21	-0.11	0.80	0.04	-0.05	-0.01	-1.11
94	ICPH261	B91/R34	-0.05	1.20	-0.54	0.70	0.08	0.15	0.04	4.65 **
95	ICPH262	B91/R48	0.77	11.11 **	0.83 *	0.04	-0.04	0.02	0.04	2.09
96	ICPH116	B92/R13	1.09 **	-8.35 **	-0.93 *	0.64	0.05	-0.25 **	0.00	-3.47 *
97	ICPH115	B92/R22	0.71	-2.10	0.98 *	0.11	-0.06	0.03	0.02	0.32
98	ICPH263	B92/R25	0.48	10.66 **	-0.23	0.59	-0.02	0.00	-0.02	0.27
99	ICPH264	B92/R34	-0.24	0.30	0.26	-0.05	0.00	-0.08	-0.02	-2.54
100	ICPH265	B92/R48	-1.63 **	2.13	0.27	-1.07	0.03	0.31 **	0.02	5.67 **
101	ICPH120	B95/R13	0.41	0.74	0.81 *	-1.06	-0.08	0.11	0.03	1.98
102	ICPH119	B95/R22	0.93 *	4.53	-0.62	0.04	0.00	0.01	0.01	-1.51
103	ICPH266	B95/R25	-0.36	3.04	0.77	0.37	-0.01	-0.08	-0.01	-0.88
104	ICPH267	B95/R34	-0.24	1.42	-0.13	1.67 **	0.01	0.01	0.01	2.02
105	ICPH268	B95/R48	-0.34	-7.09 *	-0.48	-0.79	0.07	-0.03	-0.05	-1.35
106	ICPH269	B96/R13	0.08	-6.35 *	-0.73	-0.95	-0.08	-0.18	0.04	-1.61
107	ICPH270	B96/R22	0.90 *	10.60 **	1.23 **	0.26	0.04	-0.09	-0.03	-1.13
108	ICPH271	B96/R25	0.00	.	-0.43	0.81	0.06	0.33 **	0.02	3.98 *
109	ICPH272	B96/R34	0.73	-2.18	-0.48	-0.50	-0.01	-0.15	0.00	-4.50 **
110	ICPH273	B96/R48	-1.30 **	10.33 **	0.76	0.60	-0.01	0.11	-0.02	3.51 *
111	ICPH122	B97/R13	-0.59	-3.01	1.81 **	0.49	0.06	0.03	0.01	1.19
113	ICPH274	B97/R25	-0.60	-4.39	0.15	1.08	-0.02	-0.07	0.00	-0.50
114	ICPH275	B97/R34	-0.49	0.07	-0.60	-2.13 **	0.03	0.02	0.00	0.07
115	ICPH276	B97/R48	0.66	8.48 **	0.94 *	-0.16	-0.10	0.05	-0.02	-0.54
116	ICPH124	B99/R13	-0.14	4.19	-0.91 *	0.29	0.02	0.42 **	0.01	4.36 *
117	ICPH123	B99/R22	1.58 **	1.27	-0.49	0.35	-0.05	0.02	0.00	1.11
118	ICPH277	B99/R25	-0.42	-7.50 **	-0.21	0.32	0.02	-0.05	0.01	1.83
119	ICPH278	B99/R34	0.46	5.20	1.13 **	0.28	-0.02	-0.19 *	-0.03	-4.15 *
120	ICPH279	B99/R48	-1.08 **	-0.54	0.83 *	-1.02	0.02	-0.19 *	0.01	-2.89
121	ICPH280	B101/R13	0.87 *	12.63 **	-0.59	-0.12	0.02	0.08	-0.01	-0.26

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
122	ICPH281	B101/R22	1.69 **	0.02	0.00	-0.07	0.00	-0.09	0.01	0.05
123	ICPH282	B101/R25	-0.33	-3.56	0.89 *	-0.42	-0.04	0.03	0.01	0.08
124	ICPH283	B101/R34	-1.16 **	-4.71	0.24	0.42	0.01	-0.09	-0.02	-1.43
125	ICPH284	B101/R48	-0.67	-1.74	-0.19	0.42	0.00	0.08	0.02	1.81
127	ICPH285	B107/R22	0.20	-15.51 **	-1.23 **	-0.15	-0.05	-0.15	-0.04	-3.95 *
128	ICPH286	B107/R25	0.25	-1.30	-0.65	-0.39	0.14 **	0.11	0.01	3.33
129	ICPH287	B107/R34	-0.46	1.57	-0.29	0.35	0.00	-0.14	0.00	-1.53
130	ICPH288	B107/R48	0.82 *	5.17	-1.22 **	-0.20	0.00	-0.01	0.04	0.41
133	ICPH289	B110/R25	.	-7.12 *	-0.90 *	-1.55 **	0.00	-0.03	0.02	0.35
134	ICPH290	B110/R34	0.07	-2.89	0.36	0.01	0.02	-0.21 *	-0.01	-2.87
135	ICPH291	B110/R48	0.95 *	-1.53	-0.90 *	0.22	0.06	0.06	0.00	0.76
137	ICPH292	B111/R22	0.13	0.17	-0.50	-0.54	-0.01	-0.08	-0.03	-2.38
138	ICPH293	B111/R25	0.22	-4.54	-0.27	-0.32	0.10	-0.07	0.04	-0.93
139	ICPH294	B111/R34	-0.05	-2.75	-1.14 **	0.64	0.04	0.04	-0.02	0.16
140	ICPH295	B111/R48	0.51	-2.95	-1.47 **	-0.18	-0.05	-0.08	0.03	1.43
142	ICPH137	B115/R22	0.88 *	-0.81	-1.38 **	-0.07	0.00	-0.11	0.01	-0.74
143	ICPH296	B115/R25	0.99 *	-2.03	0.36	1.29 *	0.06	0.12	0.02	3.13
144	ICPH297	B115/R34	-0.66	-8.71 **	-1.58 **	-0.55	0.01	-0.19 *	0.03	-3.30
145	ICPH298	B115/R48	-0.40	1.48	-0.78 *	-1.06	0.02	-0.01	-0.05 *	-0.82
146	ICPH299	B118/R13	0.57	7.45 *	-0.40	1.06	0.02	-0.23 *	-0.03	-6.55 **
147	ICPH300	B118/R22	0.50	-2.57	0.88 *	0.00	-0.09	-0.10	0.04	1.11
148	ICPH301	B118/R25	-0.08	-5.89 *	0.17	-1.78 **	0.00	0.11	-0.01	0.32
149	ICPH302	B118/R34	0.06	-3.29	-0.08	0.00	0.01	0.09	0.00	1.32
150	ICPH303	B118/R48	-0.65	6.93 *	-0.22	0.93	0.05	0.14	0.01	4.06 *
152	ICPH143	B120/R22	-1.01 *	-5.34	-0.97 *	-0.55	0.01	-0.03	-0.01	0.04
153	ICPH304	B120/R25	2.41 **	6.62 *	-0.51	0.63	-0.03	-0.17	0.01	-2.12
154	ICPH305	B120/R34	0.06	0.38	-0.09	0.02	0.07	0.04	-0.01	0.24
155	ICPH306	B120/R48	-0.66	-11.72 **	-1.81 **	-0.50	0.04	-0.04	0.02	0.11
156	ICPH148	B126/R13	0.75	15.08 **	-0.50	-0.32	0.20 **	0.13	-0.01	1.14
157	ICPH147	B126/R22	0.75	-1.75	-0.02	0.47	-0.02	-0.04	0.01	0.35
158	ICPH307	B126/R25	0.24	-7.56 **	0.53	0.79	-0.05	0.13	0.00	1.90
159	ICPH308	B126/R34	-0.34	-2.57	-0.03	0.14	-0.06	0.00	0.02	0.64
160	ICPH309	B126/R48	-0.99 *	-0.57	0.37	-0.86	-0.08	-0.20 *	-0.02	-3.76 *
161	ICPH152	B129/R13	0.53	-3.91	0.53	-0.41	0.04	-0.11	0.00	-1.75
162	ICPH151	B129/R22	1.07 **	2.71	-0.52	0.82	-0.07	0.28 **	-0.03	3.37 *
163	ICPH310	B129/R25	-0.70	-3.42	-0.67	-1.25 *	0.04	0.08	-0.01	1.11
164	ICPH311	B129/R34	-0.40	-2.62	0.41	0.86	-0.07	-0.26 **	0.01	-3.57 *
165	ICPH312	B129/R48	-0.10	9.87 **	0.61	0.20	0.05	0.02	0.03	1.09
166	ICPH156	B141/R13	-0.68	7.20 *	1.76 **	-0.48	-0.05	0.14	0.04	4.52 **
167	ICPH155	B141/R22	-0.77	-5.41	0.06	-0.01	0.01	-0.08	0.04	1.47
168	ICPH313	B141/R25	-0.02	-5.23	-1.12 **	0.62	-0.02	-0.12	-0.02	-4.67 **
169	ICPH314	B141/R34	0.91 *	2.52	-0.49	0.15	0.04	0.12	-0.03	0.47
170	ICPH315	B141/R48	0.96 *	3.55	0.14	-0.06	0.01	-0.06	-0.04	-1.54

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
172	ICPH159	B145/R22	0.04	-2.83	-1.04 **	0.44	0.11 *	-0.02	0.03	-0.06
173	ICPH316	B145/R25	0.29	-12.86 **	-0.33	-1.31 *	0.01	-0.20 *	0.00	-1.97
174	ICPH317	B145/R34	-0.17	5.26	-0.84 *	0.16	-0.05	-0.03	-0.03	-1.66
175	ICPH318	B145/R48	0.65	0.36	-1.18 **	0.32	0.03	0.06	0.02	1.95
176	ICPH162	B150/R13	0.13	3.49	0.18	-0.80	-0.08	0.13	0.04	4.31 *
177	ICPH161	B150/R22	0.92 *	-0.55	-0.71	-0.95	0.09	-0.12	0.02	-2.78
179	ICPH319	B150/R34	0.12	4.73	0.96 *	0.31	-0.05	0.05	-0.06 *	-0.44
180	ICPH320	B150/R48	0.86 *	4.72	1.97 **	-0.29	0.00	0.12	0.00	2.03
181	ICPH164	B152/R13	-0.26	-5.94 *	-0.85 *	-0.87	-0.07	-0.16	0.02	-0.50
182	ICPH163	B152/R22	-0.66	7.03 *	1.29 **	0.53	0.06	0.01	-0.04	-1.97
183	ICPH321	B152/R25	-0.88 *	-5.74 *	-0.15	-0.90	-0.03	0.18	0.02	3.52 *
184	ICPH322	B152/R34	-0.52	0.84	0.22	0.79	0.02	0.15	0.00	2.03
185	ICPH323	B152/R48	2.72 **	6.44 *	-0.15	0.68	0.00	-0.16	0.01	-2.83
186	ICPH166	B153/R13	-1.37 **	6.07 *	-0.36	0.45	0.06	0.14	0.03	3.86 *
187	ICPH165	B153/R22	0.67	-0.19	-0.73	-0.41	-0.05	-0.15	-0.03	-4.10 *
188	ICPH324	B153/R25	-0.08	-2.53	0.55	-1.02	-0.03	-0.11	0.01	0.10
189	ICPH325	B153/R34	-0.30	0.01	0.49	0.83	0.02	0.15	0.04	2.84
190	ICPH326	B153/R48	1.48 **	-0.72	0.41	0.37	-0.01	-0.01	-0.04	-2.45
191	ICPH174	B166/R13	0.24	8.54 **	2.04 **	-0.24	0.02	0.27 **	-0.02	2.82
193	ICPH327	B166/R25	-0.53	2.85	-0.36	-0.25	-0.04	0.03	-0.05	-1.44
194	ICPH328	B166/R34	-0.94 *	-9.44 **	-0.59	-0.73	0.01	-0.02	0.00	1.85
195	ICPH329	B166/R48	0.22	-0.80	1.21 **	0.51	-0.01	-0.25 **	0.06 *	-3.00
196	ICPH184	B180/R13	0.96 *	-4.08	1.12 **	0.17	-0.05	-0.21 *	0.02	-3.34
197	ICPH183	B180/R22	0.57	3.37	0.16	0.98	-0.02	0.09	0.03	1.04
198	ICPH330	B180/R25	-0.59	-6.39 *	-1.35 **	-0.13	0.04	0.06	-0.06 *	-1.51
199	ICPH331	B180/R34	-0.51	0.40	-0.35	-1.45 *	0.02	0.14	-0.05 *	1.08
200	ICPH332	B180/R48	-0.01	9.32 **	0.78 *	0.66	0.01	-0.07	0.06 *	2.99
201	ICPH188	B182/R13	-0.06	-41.22 **	-1.59 **	-0.37	-0.10	-0.62 **	0.04	-6.59 **
202	ICPH187	B182/R22	-0.65	6.97 *	0.55	0.46	0.11 *	0.06	0.02	1.09
203	ICPH333	B182/R25	0.39	12.57 **	0.61	1.14	-0.03	0.04	-0.06 *	-1.49
204	ICPH334	B182/R34	-0.24	9.99 **	0.32	-1.13	-0.01	0.26 **	0.02	4.03 *
205	ICPH335	B182/R48	0.96 *	14.32 **	0.46	0.13	0.02	0.28 **	-0.02	3.23
206	ICPH190	B184/R13	0.51	-6.20 *	0.47	0.46	-0.02	-0.07	0.04	-0.18
207	ICPH189	B184/R22	-0.09	5.44	-0.30	-0.24	0.02	0.17	0.06 *	5.11 **
208	ICPH336	B184/R25	0.17	-3.03	0.38	0.70	0.00	-0.05	-0.04	-1.67
209	ICPH337	B184/R34	0.27	4.93	0.54	-0.46	0.00	0.09	-0.05 *	-0.30
210	ICPH338	B184/R48	-0.46	1.49	-0.74	-0.25	0.00	-0.12	0.00	-2.70
211	ICPH194	B187/R13	-0.39	-2.38	-0.26	-0.01	-0.12 *	-0.07	-0.04	-2.06
213	ICPH339	B187/R25	0.19	4.83	0.57	-0.42	0.06	0.13	0.01	1.33
214	ICPH340	B187/R34	-0.30	-7.13 *	1.18 **	0.29	0.06	-0.17	0.02	-1.42
215	ICPH341	B187/R48	-0.51	5.84 *	0.81 *	-0.57	-0.02	0.14	0.00	2.38
216	ICPH196	B188/R13	-0.66	5.26	0.04	-0.09	0.07	-0.02	-0.02	-1.10
217	ICPH195	B188/R22	-0.34	-0.59	0.19	-0.80	0.00	-0.21 *	0.01	-1.95

Trt	Hybrid	Cross	Days to 50% Flower	Plant Height (cm)	Panicle Length (cm)	Panicle Girth (mm)	Productive Tillers (No)	Panicle Yield Plot ⁻¹ (kg)	Threshing (%)	Grain Yield (q ha ⁻¹)
218	ICPH342	B188/R25	-0.52	-3.83	-0.84 *	0.59	-0.03	0.22 *	0.01	3.37 *
219	ICPH343	B188/R34	1.57 **	0.56	0.35	-0.69	0.01	-0.12	-0.02	-2.17
220	ICPH344	B188/R48	0.36	1.24	0.62	1.21 *	-0.04	0.14	0.02	2.11
221	ICPH198	B189/R13	-0.79 *	12.64 **	0.30	-0.87	0.02	0.17	0.02	1.96
222	ICPH197	B189/R22	0.93 *	-1.36	0.02	0.68	-0.04	0.22 *	-0.01	3.70 *
223	ICPH345	B189/R25	0.17	-1.59	-0.89 *	0.08	0.03	0.08	-0.03	-1.19
224	ICPH346	B189/R34	0.66	-3.03	0.31	-0.96	0.03	-0.07	0.00	0.72
225	ICPH347	B189/R48	-0.56	-4.02	0.61	1.28 *	-0.04	-0.38 **	0.02	-4.94 **
226	ICPH200	B192/R13	-2.20 **	9.60 **	0.35	-0.39	0.04	0.05	0.00	1.30
227	ICPH199	B192/R22	0.87 *	4.64	-1.44 **	0.79	-0.02	-0.15	0.03	-0.93
228	ICPH348	B192/R25	-0.07	-0.97	0.89 *	0.22	0.00	-0.03	-0.01	-2.48
229	ICPH349	B192/R34	-0.30	-3.51	-0.31	-0.44	0.00	0.06	0.07 **	3.73 *
230	ICPH350	B192/R48	2.10 **	-7.13 *	0.86 *	0.04	-0.03	0.08	-0.09 **	-1.35
	Min.		-2.20	-59.49	-3.50	-2.13	-0.12	-0.62	-0.09	-6.91
	Max.		2.72	30.72	2.06	2.18	0.20	0.42	0.07	6.49