

Table 3 *Per se* performance of derived F₁ crosses for different quantitative characters

Sl. No	Crosses	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls (g)	Mean boll weight (g)	Reproductive points on sympodia	Length of sympodia at 50% height (cm)	Inter branch distant (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthesis rate ($\mu\text{mol CO}_2\text{m}^{-2}\text{s}^{-1}$)	Stomatal conductance ($\mu\text{mol m}^{-2}\text{s}^{-1}$)	Transpiration rate ($\text{mmol H}_2\text{O m}^{-2}\text{s}^{-1}$)	2.5% SL (mm)	UR % value	Micronaire (µg/inch)	Maturity ratio	Tenacity (g/t)	Elongation %	Seed cotton yield (kg/ha)		
																							H mp	H cc ₁	H cc ₂
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21			
1	[DH 98-27 x (DB 533 x DB 534 F4 IPS 44)]	2029.82	115.17	2.05	21.00	41.17	2.50	4.17	54.92	7.50	8.34	30.67	3.13	13.01	0.30	2.26	33.08	45.88	2.74	0.58	28.08	6.58	19.49	-1.49	1.56
2	[DH 98-27 x (DB 533 x DB 534 F4 IPS 62)]	1819.33	141.33	1.83	22.50	55.67	3.35	4.42	53.33	6.33	10.28	31.83	5.15	30.74	0.93	4.75	35.73	44.88	3.00	0.61	27.15	6.43	11.53	-11.71	-8.97
3	[DH 98-27 x (DB 533 x DB 534 F4 IPS 105)]	2606.56	127.67	1.97	19.50	47.17	2.95	4.50	49.58	6.17	8.83	29.11	3.37	27.38	0.70	5.85	31.13	45.67	3.61	0.64	22.91	5.88	88.58**	26.50	30.41
4	[DH 98-27 x (DB 533 x DB 534 F4 IPS 26)]	1878.73	118.33	2.33	20.83	39.17	2.65	4.42	46.67	7.83	10.34	34.25	5.03	30.55	0.69	7.32	32.33	43.63	3.23	0.62	24.76	6.13	26.62	-8.82	-6.00
5	[DH 98-27 x (DB 533 x DB 534 F4 IPS 71)]	1894.36	126.00	2.33	22.50	48.83	3.15	3.42	44.58	7.17	10.45	27.54	5.26	25.15	0.47	6.09	31.88	45.55	3.50	0.65	23.25	6.15	18.36	-8.07	-5.22
6	[DH 98-27 x (DB 533 x DB 534 F4 IPS 30)]	1785.99	130.00	1.83	18.00	40.83	3.05	4.92	43.58	7.50	10.06	30.16	3.83	25.33	0.62	5.31	31.42	46.12	3.21	0.63	24.94	6.20	16.50	-13.33	-10.64
7	[DH 98-27 x (DB 533 x DB 534 F4 IPS 25)]	2152.77	133.67	1.57	21.50	38.83	3.10	5.28	43.00	8.17	12.83	30.91	5.84	23.18	0.62	4.69	33.91	45.22	2.95	0.60	28.71	6.29	67.66**	4.48	7.71
8	[DH 98-27 x (DB 533 x DB 534 F4 IPS 49)]	2884.26	119.50	1.33	22.83	49.17	3.45	4.11	42.58	6.50	10.22	27.59	5.44	30.37	0.80	6.27	34.86	44.45	3.16	0.61	28.29	6.46	108.16**	39.97*	44.31*
9	[DH 98-27 x (DB 533 x DB 534 F4 IPS 23)]	1855.28	115.33	1.15	23.67	55.50	3.85	4.92	42.42	7.17	10.78	30.97	6.01	24.17	0.47	5.56	33.66	45.12	3.22	0.60	29.60	6.67	4.34	-9.96	-7.17
10	[DH 98-27 x (DB 533 x DB 534 F4 IPS 36)]	1812.04	122.67	2.00	21.50	66.17	3.30	3.00	41.50	7.00	10.50	29.11	3.67	8.08	0.09	4.04	33.34	44.45	2.94	0.58	28.70	6.62	5.92	-12.06	-9.34
11	[DH 98-27 x (DB 533 x DB 534 F4 IPS 15)]	1902.69	119.67	1.67	24.00	46.00	2.65	4.67	41.50	7.33	10.95	27.80	4.86	14.67	0.29	4.03	33.44	45.76	2.76	0.57	29.04	6.45	30.17	-7.66	-4.80
12	[DH 98-27 x (DB 533 x DB 534 F4 IPS 1)]	1980.32	134.17	1.33	22.50	40.33	3.30	4.00	41.06	7.00	9.97	27.32	3.47	20.84	0.44	10.04	35.06	44.01	2.86	0.58	28.16	6.47	26.68	-3.89	-0.92
13	[DH 98-27 x (DB 533 x DB 534 F4 IPS 33)]	1642.19	124.83	1.73	22.00	39.50	4.20	3.58	40.67	7.33	10.88	31.44	4.91	32.01	1.06	7.35	34.63	44.97	3.02	0.58	28.74	6.70	0.41	-20.30	-17.84
14	[DH 98-27 x (DB 533 x DB 534 F4 IPS 24)]	1703.15	143.83	1.72	20.17	48.17	2.50	3.64	40.33	6.33	9.06	32.18	4.35	31.40	0.83	4.58	33.66	45.22	2.76	0.57	29.48	6.52	8.62	-17.35	-14.79
15	[DH 98-27 x (DB 533 x DB 534 F4 IPS 16)]	2384.62	102.17	1.94	24.83	50.67	2.75	4.67	39.83	7.00	10.70	30.42	5.20	32.53	1.03	8.40	36.79	43.16	3.04	0.58	28.74	6.56	80.8**	15.73	19.31
16	[DH 98-27 x (DB 533 x DB 534 F4 IPS 52)]	2636.78	137.50	2.00	24.50	43.67	3.05	4.50	39.75	7.00	12.89	33.36	6.17	31.27	0.82	5.79	34.89	44.31	3.47	0.61	27.99	6.47	85.62**	27.96	31.93
17	[DH 98-27 x (DB 533 x DB 534 F4 IPS 12)]	1861.53	118.00	1.83	23.50	49.00	2.85	4.83	39.58	6.50	10.45	31.78	5.16	26.87	0.67	5.15	33.34	44.57	3.17	0.60	28.46	6.69	13.27	-9.66	-6.86
18	[DH 98-27 x (DB 534 x DB 533 F4 IPS 22)]	2800.90	102.67	2.22	23.67	52.67	2.55	3.67	39.33	7.67	9.95	30.20	4.69	6.40	0.25	5.57	36.66	43.97	3.12	0.61	26.42	6.42	77.72**	35.93*	40.14*
19	[DH 98-27 x (DB 533 x DB 534 F4 IPS 14)]	1955.83	131.17	1.47	24.50	58.50	3.60	3.83	39.25	6.50	10.52	29.42	3.98	31.78	1.00	7.03	34.39	45.15	3.12	0.60	27.88	6.60	47.39	-5.08	-2.14
20	[DH 98-27 x (DB 533 x DB 534 F4 IPS 34)]	2074.62	109.83	1.42	21.50	53.50	3.35	4.67	39.17	6.67	8.45	28.45	4.83	25.72	0.64	5.80	35.22	44.52	3.28	0.62	27.90	6.72	45.22*	0.68	3.80
21	[DH 98-27 x (DB 533 x DB 534 F4 IPS 55)]	2074.10	103.17	1.42	19.33	34.83	3.25	3.92	39.08	5.67	10.28	33.12	5.92	29.82	0.66	4.94	36.33	42.79	3.01	0.59	27.35	6.27	30.72	0.66	3.77
22	[DH 98-27 x (DB 533 x DB 534 F4 IPS 17)]	2433.59	123.83	1.56	20.00	35.00	2.85	3.75	38.67	7.50	9.47	26.13	3.97	32.13	0.81	6.36	36.01	42.92	2.80	0.56	28.66	6.35	60.18**	18.10	21.76
23	[DH 98-27 x (DB 533 x DB 534 F4 IPS 32)]	1761.50	108.33	1.90	24.17	49.00	3.45	4.08	37.67	7.00	17.50	31.48	7.40	15.27	0.18	3.65	33.94	45.64	3.15	0.60	28.79	6.62	38.68	-14.51	-11.87
24	[DH 98-27 x (DB 533 x DB 534 F4 IPS 38)]	1859.97	137.00	1.33	22.17	53.00	2.95	4.08	37.58	6.50	8.20	31.89	3.56	17.37	0.32	5.54	35.21	43.95	2.62	0.56	29.06	6.42	35.59	-9.73	-6.94
25	[DH 98-27 x (DB 533 x DB 534 F4 IPS 48)]	2380.97	112.17	1.83	18.33	52.33	3.55	3.94	37.25	7.33	10.73	31.45	6.04	27.93	0.82	7.13	36.24	43.64	2.83	0.58	27.53	6.32	37.48*	15.55	19.13

Continued Table 3

Sl. No	Crosses	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls (g)	Mean boll weight (g)	Reproductive points on sympodia	Length of sympodia at 50% height (cm)	Inter branch distant (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthesis rate ($\mu\text{mol CO}_2\text{m}^{-2}\text{s}^{-1}$)	Stomatal conductance ($\mu\text{mol m}^{-2}\text{s}^{-1}$)	Transpiration rate ($\text{mmol H}_2\text{O m}^{-2}\text{s}^{-1}$)	2.5% SL (mm)	UR value ($\mu\text{g/inch}$)	Micronaire ratio	Maturity (g/t)	Tenacity (g/t)	Elongation (%)	Seed H mp	cotton yield (kg/ha)	H cc ₁	H cc ₂
26	[DH 98-27 x (DB 533 x DB 534 F4 IPS 13)]	2009.50	117.67	1.55	20.17	53.00	2.55	4.17	37.17	6.50	7.00	29.18	3.81	30.97	1.02	7.33	34.48	43.64	2.90	0.59	28.09	6.40	20.74	-2.48	0.54	
27	[DH 98-27 x (DB 533 x DB 534 F4 IPS 6)]	1923.53	127.50	1.98	19.50	51.33	3.05	4.33	37.00	6.33	10.94	32.86	4.89	31.55	0.86	6.06	33.96	44.24	3.11	0.60	27.60	6.64	35.91	-6.65	-3.76	
28	[DH 98-27 x (DB 533 x DB 534 F4 IPS 8)]	1999.08	135.83	2.00	23.67	57.50	3.85	2.85	36.83	7.67	9.50	28.17	5.34	22.98	0.61	4.73	33.69	43.77	2.79	0.58	28.42	6.59	31.79	-2.98	0.02	
29	[ZCH 8 x (DB 533 x DB 534 F4 IPS 44)]	1772.44	116.33	1.72	20.50	57.84	3.15	2.75	36.75	7.33	9.50	22.65	3.07	22.53	0.70	5.97	31.83	45.82	3.43	0.63	27.09	6.54	-8.45	-13.98	-11.32	
30	[ZCH 8 x (DB 533 x DB 534 F4 IPS 62)]	1575.50	104.83	2.00	22.67	44.17	2.65	3.17	36.75	7.17	9.83	29.82	4.14	17.80	0.43	6.08	33.42	45.07	2.80	0.57	28.68	6.60	-15.68	-23.54	-21.17	
31	[ZCH 8 x (DB 533 x DB 534 F4 IPS 105)]	2015.23	109.17	1.50	22.50	49.33	3.05	5.08	36.75	5.83	10.62	24.33	3.46	15.47	0.36	4.31	32.14	45.44	3.11	0.61	29.36	6.70	24.43	-2.20	0.83	
32	[ZCH 8 x (DB 533 x DB 534 F4 IPS 26)]	1645.32	103.33	1.11	22.50	43.67	2.95	3.58	36.67	9.17	10.39	32.63	5.87	28.09	0.65	6.39	32.09	45.05	2.96	0.60	28.71	6.54	-4.40	-20.15	-17.68	
33	[ZCH 8 x (DB 533 x DB 534 F4 IPS 71)]	1674.49	114.00	2.17	20.33	47.50	3.55	3.25	36.67	6.33	7.79	29.81	3.33	5.48	0.11	4.10	34.19	44.84	2.96	0.59	28.59	6.81	4.18	-18.74	-16.22	
34	[ZCH 8 x (DB 533 x DB 534 F4 IPS 30)]	1514.03	120.50	2.17	22.17	45.00	3.15	4.75	36.58	6.33	8.72	23.15	2.71	7.64	0.10	3.98	33.09	45.66	2.50	0.55	31.22	6.37	-1.68	-26.52	-24.25	
35	[ZCH 8 x (DB 533 x DB 534 F4 IPS 25)]	1822.46	99.17	1.70	17.50	46.83	2.95	4.08	36.50	6.33	11.50	29.81	6.36	28.64	0.59	6.47	32.84	45.82	2.73	0.57	30.23	6.44	41.19	-11.55	-8.82	
36	[ZCH 8 x (DB 533 x DB 534 F4 IPS 49)]	2250.72	123.17	2.17	24.00	53.00	2.95	2.58	35.83	8.50	10.72	27.14	4.33	25.64	0.55	5.90	33.68	45.48	2.64	0.57	28.22	6.47	61.65**	9.23	12.61	
37	[ZCH 8 x (DB 533 x DB 534 F4 IPS 23)]	1622.92	110.67	1.68	20.67	43.50	2.55	3.83	35.67	8.33	9.61	28.02	4.39	25.03	0.84	7.32	33.67	44.67	2.61	0.57	28.66	6.77	2.27	-21.24	-18.80	
38	[ZCH 8 x (DB 533 x DB 534 F4 IPS 36)]	1520.28	119.83	1.67	24.67	46.17	2.95	3.53	35.67	7.17	10.84	27.49	4.69	25.85	0.93	8.64	34.80	44.68	2.69	0.59	27.80	6.68	0.05	-26.22	-23.94	
39	[ZCH 8 x (DB 533 x DB 534 F4 IPS 15)]	1693.25	123.33	1.11	22.00	38.17	2.70	4.08	35.42	6.17	11.00	29.53	5.58	24.30	0.43	5.88	34.40	44.47	2.81	0.59	26.33	6.35	33.28	-17.83	-15.28	
40	[ZCH 8 x (DB 533 x DB 534 F4 IPS 1)]	1734.41	113.17	1.83	22.33	54.50	2.90	3.67	35.17	5.67	9.52	24.86	3.09	8.48	0.12	4.04	34.55	44.78	2.87	0.59	26.37	6.48	26.41	-15.83	-13.22	
41	[ZCH 8 x (DB 533 x DB 534 F4 IPS 33)]	1388.47	120.83	2.00	23.67	58.17	3.50	3.17	35.17	7.33	8.51	13.81	3.16	3.15	0.24	3.87	34.43	44.28	2.59	0.59	29.06	6.52	-16.68	-32.62	-30.53	
42	[ZCH 8 x (DB 533 x DB 534 F4 IPS 24)]	1474.43	124.00	1.73	19.67	50.83	3.25	3.83	35.08	6.33	10.06	29.94	3.33	23.42	0.36	6.47	33.05	43.00	2.72	0.59	23.74	6.22	-7.79	-28.45	-26.23	
43	[ZCH 8 x (DB 533 x DB 534 F4 IPS 16)]	1985.01	106.67	2.05	20.50	41.00	3.00	3.83	35.00	7.17	9.33	31.78	5.29	20.61	0.36	4.85	33.20	45.03	2.60	0.58	28.65	6.72	47.05*	-3.67	-0.68	
44	[ZCH 8 x (DB 533 x DB 534 F4 IPS 52)]	2040.76	116.33	2.33	20.00	45.00	3.80	4.58	34.92	6.83	9.02	28.81	3.50	34.25	1.17	8.33	32.77	44.43	2.61	0.58	27.66	6.43	40.60	-0.96	2.11	
45	[ZCH 8 x (DB 533 x DB 534 F4 IPS 12)]	1630.73	89.67	1.61	19.67	41.00	3.10	2.75	34.92	7.50	8.32	30.07	4.41	20.47	0.32	5.08	31.42	45.22	3.02	0.58	29.21	6.82	-2.99	-20.86	-18.41	
46	[ZCH 8 x (DB 534 x DB 533 F4 IPS 22)]	2112.13	105.33	1.17	18.83	47.33	3.00	2.83	34.92	6.17	9.75	31.28	4.30	24.97	0.82	7.02	35.63	44.33	2.93	0.61	27.19	6.62	30.90	2.50	5.68	
47	[ZCH 8 x (DB 533 x DB 534 F4 IPS 14)]	1713.05	114.50	1.83	23.00	34.50	3.00	4.17	34.75	7.67	8.87	30.31	4.32	16.58	0.50	5.99	33.87	45.55	2.75	0.59	28.38	6.53	25.54	-16.86	-14.29	
48	[ZCH 8 x (DB 533 x DB 534 F4 IPS 34)]	1815.69	110.50	2.17	21.67	53.00	2.65	3.92	34.67	5.83	9.95	27.17	3.97	24.10	0.71	7.70	34.17	43.93	2.69	0.59	27.69	6.48	23.84	-11.88	-9.16	
49	[ZCH 8 x (DB 533 x DB 534 F4 IPS 55)]	1806.31	135.17	2.37	22.50	38.00	3.05	4.39	34.50	7.83	9.52	30.29	4.36	12.07	0.25	3.80	34.82	44.77	2.78	0.59	26.60	6.50	22.64	-12.34	-9.62	
50	[ZCH 8 x (DB 533 x DB 534 F4 IPS 17)]	2001.68	128.17	1.74	24.17	49.50	3.70	3.25	34.33	5.33	8.61	29.37	3.39	23.55	0.52	5.81	31.80	46.15	2.66	0.57	28.83	6.73	42.43	-2.86	0.15	
51	[ZCH 8 x (DB 533 x DB 534 F4 IPS 32)]	1481.72	128.67	1.72	20.00	43.00	2.95	3.44	33.92	7.67	10.73	26.60	3.25	31.73	1.07	6.69	32.30	45.52	2.84	0.59	26.84	6.58	28.14	-28.09	-25.86	
52	[ZCH 8 x (DB 533 x DB 534 F4 IPS 38)]	1625.52	120.33	2.10	21.83	40.17	3.50	2.69	33.89	7.17	10.78	28.06	5.36	30.76	0.70	7.00	34.22	43.45	2.90	0.60	26.94	6.55	29.22	-21.11	-18.67	

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																				H cc ₁	H cc ₂				
53	[ZCH 8 x (DB 533 x DB 534 F4 IPS 48)]	1908.42	99.67	2.00	23.00	55.50	2.95	2.92	33.83	6.00	9.78	28.34	4.06	26.02	0.48	5.63	32.95	45.50	2.88	0.60	27.80	6.62	23.56	-7.38	-4.52
54	[ZCH 8 x (DB 533 x DB 534 F4 IPS 13)]	1758.90	116.50	1.50	20.00	46.00	3.10	2.83	33.83	6.83	9.00	27.70	3.54	32.85	1.16	8.14	34.45	45.12	2.64	0.58	28.04	6.67	19.08	-14.64	-12.00
55	[ZCH 8 x (DB 533 x DB 534 F4 IPS 6)]	1706.28	105.67	1.83	21.00	49.00	3.25	4.00	33.36	6.83	12.55	28.97	4.72	26.13	0.50	6.04	33.80	44.87	2.90	0.59	26.89	6.50	38.95	-17.19	-14.63
56	[ZCH 8 x (DB 533 x DB 534 F4 IPS 8)]	1750.04	120.17	1.83	19.67	44.67	3.15	3.42	33.33	7.67	8.78	29.80	4.33	22.95	0.74	5.42	34.03	43.97	2.73	0.60	27.81	6.62	31.62	-15.07	-12.44
57	[178-24 x (DB 533 x DB 534 F4 IPS 44)]	1878.73	107.17	1.35	23.00	43.33	3.05	3.17	33.33	7.00	11.11	35.31	6.31	31.82	0.53	7.00	36.17	44.43	2.92	0.60	26.50	6.53	6.84	-8.82	-6.00
58	[178-24 x (DB 533 x DB 534 F4 IPS 62)]	1565.08	115.83	1.68	22.50	35.50	2.40	3.25	33.25	7.00	9.52	32.60	3.46	29.17	0.58	7.25	36.40	44.72	3.09	0.62	25.61	6.25	-7.44	-24.05	-21.69
59	[178-24 x (DB 533 x DB 534 F4 IPS 105)]	2026.17	98.17	1.83	18.83	37.17	2.95	4.25	33.17	6.17	10.52	31.39	5.70	21.48	0.48	4.33	34.57	44.42	2.96	0.61	26.81	6.58	40.52	-1.67	1.38
60	[178-24 x (DB 533 x DB 534 F4 IPS 26)]	1651.57	112.00	1.67	19.83	38.67	3.65	3.58	33.17	7.00	9.61	31.97	4.67	23.50	0.41	6.10	34.30	45.43	2.97	0.61	27.40	6.47	7.00	-19.85	-17.37
61	[178-24 x (DB 533 x DB 534 F4 IPS 71)]	1701.59	112.50	2.44	20.00	52.67	2.90	3.17	33.00	8.33	9.89	29.44	4.91	26.09	0.77	8.59	34.28	44.78	2.85	0.59	27.47	6.47	-5.37	-17.42	-14.86
62	[178-24 x (DB 533 x DB 534 F4 IPS 30)]	1486.41	92.67	2.17	18.17	47.67	3.15	4.00	32.92	6.33	10.39	31.88	5.73	24.05	0.59	4.89	34.65	44.65	2.90	0.59	26.45	6.45	-14.12	-27.86	-25.63
63	[178-24 x (DB 533 x DB 534 F4 IPS 25)]	1930.83	112.00	1.35	21.33	38.17	3.05	3.75	32.83	6.67	8.50	33.35	4.89	26.13	0.52	6.17	32.25	45.70	2.63	0.57	29.10	6.73	30.31	-6.30	-3.39
64	[178-24 x (DB 533 x DB 534 F4 IPS 49)]	2207.48	100.17	2.06	21.00	39.83	2.90	4.11	32.67	8.33	9.82	31.47	4.75	27.95	0.94	8.59	31.97	45.20	2.75	0.58	28.70	6.85	39.42	7.13	10.45
65	[178-24 x (DB 533 x DB 534 F4 IPS 23)]	1565.08	108.83	1.95	23.17	40.33	2.70	3.33	32.58	5.83	9.07	33.16	4.89	21.90	0.34	4.38	35.35	43.38	2.60	0.57	27.76	6.43	-4.22	-24.05	-21.69
66	[178-24 x (DB 533 x DB 534 F4 IPS 36)]	1512.98	89.17	1.33	22.83	40.33	3.10	2.25	32.50	8.00	11.72	30.82	5.28	30.51	0.65	6.14	35.40	43.50	3.04	0.62	25.86	6.55	-3.43	-26.57	-24.30
67	[178-24 x (DB 533 x DB 534 F4 IPS 15)]	1768.27	118.50	1.83	23.00	44.00	2.50	3.75	32.25	7.00	9.52	31.04	4.83	8.12	0.09	3.67	34.00	43.43	2.60	0.58	26.15	6.32	34.20	-14.18	-11.53
68	[178-24 x (DB 533 x DB 534 F4 IPS 1)]	1828.71	113.17	1.61	22.67	56.33	3.10	3.22	32.17	7.83	8.83	31.14	4.38	23.25	0.65	7.78	34.47	43.95	2.50	0.56	27.38	6.55	28.85	-11.25	-8.50
69	[178-24 x (DB 533 x DB 534 F4 IPS 33)]	1146.20	92.67	1.67	21.17	46.17	2.90	3.17	32.17	8.50	12.00	29.53	4.74	22.56	0.84	6.18	32.55	45.40	2.49	0.57	28.31	6.58	-38.94*	-44.37*	-42.65*
70	[178-24 x (DB 533 x DB 534 F4 IPS 24)]	1298.85	118.17	2.00	19.67	37.00	2.90	3.83	31.92	6.33	11.33	28.56	4.11	27.02	0.57	6.97	36.28	42.98	2.78	0.59	26.04	6.50	-28.23	-36.97*	-35.01
71	[178-24 x (DB 533 x DB 534 F4 IPS 16)]	1983.45	96.83	1.50	17.83	43.17	3.70	3.33	31.83	7.00	9.34	28.58	3.64	8.67	0.10	3.34	34.37	43.45	2.80	0.58	26.11	6.60	27.09	-3.74	-0.76
72	[178-24 x (DB 533 x DB 534 F4 IPS 52)]	2027.73	106.50	2.09	23.50	43.67	3.25	2.92	31.67	7.50	7.90	30.75	5.70	25.25	0.95	8.16	34.18	44.63	2.72	0.57	26.80	6.77	21.99	-1.59	1.45
73	[178-24 x (DB 533 x DB 534 F4 IPS 12)]	1580.71	136.83	1.67	22.00	41.33	2.35	3.15	31.67	8.17	9.94	26.83	4.56	25.74	0.39	4.95	32.90	46.45	2.52	0.57	28.60	6.67	-5.70	-23.29	-20.91
74	[178-24 x (DB 534 x DB 533 F4 IPS 22)]	2099.11	107.00	1.53	20.83	45.33	2.75	3.08	31.58	8.00	8.78	33.50	4.90	21.08	0.88	8.31	33.85	46.53	2.95	0.61	28.88	6.60	30.47	1.87	5.03
75	[178-24 x (DB 533 x DB 534 F4 IPS 14)]	1815.16	107.83	1.33	25.17	37.83	3.45	3.17	31.42	7.67	8.52	31.17	4.48	14.83	0.58	7.56	35.15	44.13	2.82	0.58	26.78	6.73	33.49	-11.91	-9.18
76	[178-24 x (DB 533 x DB 534 F4 IPS 34)]	1902.69	125.00	1.79	23.67	50.83	3.45	2.92	31.33	6.50	9.56	25.45	3.07	25.02	0.80	7.31	35.12	43.50	2.70	0.58	27.23	6.58	30.20	-7.66	-4.80
77	[178-24 x (DB 533 x DB 534 F4 IPS 55)]	1899.05	103.50	1.83	19.50	41.33	3.20	3.33	31.33	8.33	10.94	28.80	3.81	20.01	0.36	5.46	33.55	45.12	2.69	0.58	27.46	6.62	10.05	-7.84	-4.98
78	[178-24 x (DB 533 x DB 534 F4 IPS 17)]	2025.13	132.00	2.22	24.83	47.67	2.80	3.28	31.17	7.83	10.61	29.58	4.67	22.79	0.70	7.58	33.72	44.47	2.84	0.60	26.89	6.53	22.14	-1.72	1.32

Sl. No	Crosses	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls (g)	Mean boll weight (g)	Reproductive points on sympodia	Length of sympodia at 50% height (cm)	Inter branch distant (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthesis rate ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	Stomatal conductance ($\mu\text{mol m}^{-2} \text{s}^{-1}$)	Transpiration rate ($\text{mmol H}_2\text{O m}^{-2} \text{s}^{-1}$)	2.5% SL (mm)	UR % value ($\mu\text{g/inch}$)	Micronaire ratio	Maturity (g/t)	Tenacity (g/t)	Elongation %	Seed cotton yield (kg/ha)		
																						H mp	H cc ₁	H cc ₂	
79	[178-24 x (DB 533 x DB 534 F4 IPS 32)]	1391.07	90.00	1.83	16.83	50.50	3.50	2.17	31.00	7.67	8.85	29.42	3.64	17.66	0.23	2.07	35.62	44.52	2.58	0.57	27.07	6.67	-1.28	-32.49	-30.40
80	[178-24 x (DB 533 x DB 534 F4 IPS 38)]	1568.73	91.83	2.15	19.83	44.67	3.55	3.42	31.00	7.67	11.39	24.98	4.34	24.28	0.91	8.78	32.42	44.83	2.54	0.57	27.14	6.35	3.85	-23.87	-21.51
81	[178-24 x (DB 533 x DB 534 F4 IPS 48)]	1980.84	99.83	1.50	20.67	36.50	2.80	3.42	31.00	6.50	9.78	29.51	4.92	28.75	0.91	8.77	34.72	42.60	3.00	0.61	26.52	6.68	14.85	-3.87	-0.89
82	[178-24 x (DB 533 x DB 534 F4 IPS 13)]	1859.97	127.33	1.15	21.83	58.33	2.65	2.67	30.92	9.50	10.96	30.60	5.12	24.72	0.77	8.65	34.38	43.60	3.00	0.59	27.25	6.52	12.23	-9.73	-6.94
83	[178-24 x (DB 533 x DB 534 F4 IPS 6)]	1814.64	104.00	2.10	16.83	44.00	2.85	4.42	30.92	6.17	8.56	29.73	4.60	22.35	0.78	6.96	32.68	44.52	2.62	0.57	27.96	6.67	28.86	-11.93	-9.21
84	[178-24 x (DB 533 x DB 534 F4 IPS 8)]	1840.69	100.17	1.75	23.50	53.67	3.45	2.94	30.75	7.83	8.56	28.90	4.20	23.92	0.74	8.15	34.85	43.63	2.72	0.59	28.76	6.65	21.91	-10.67	-7.90
85	[DH 18-31 x (DB 533 x DB 534 F4 IPS 44)]	2322.62	105.17	2.05	19.50	53.17	2.80	4.16	30.33	7.33	10.78	32.27	5.30	28.93	0.68	6.31	33.80	45.88	2.87	0.60	27.82	6.65	31.18	12.72	16.21
86	[DH 18-31 x (DB 533 x DB 534 F4 IPS 62)]	2024.61	120.83	1.49	20.67	51.67	2.95	3.58	30.17	6.50	10.55	31.18	6.57	29.45	0.96	6.71	35.47	44.03	2.90	0.60	26.52	6.48	18.87	-1.74	1.30
87	[DH 18-31 x (DB 533 x DB 534 F4 IPS 105)]	2024.61	113.17	1.50	21.17	42.00	2.85	3.50	30.17	6.50	10.55	31.18	6.57	29.45	0.96	6.71	35.83	43.58	3.09	0.61	25.74	6.33	70.69**	20.46	24.18
88	[DH 18-31 x (DB 533 x DB 534 F4 IPS 26)]	2255.93	110.67	1.33	20.17	41.67	2.70	4.00	30.00	6.67	10.56	31.22	6.18	29.98	0.64	5.87	34.97	42.78	2.97	0.59	26.69	6.53	45.01*	9.48	12.87
89	[DH 18-31 x (DB 533 x DB 534 F4 IPS 71)]	2259.58	104.00	2.17	19.50	53.67	2.70	2.84	30.00	7.67	12.43	30.35	4.61	29.35	0.69	6.45	35.02	44.58	2.92	0.60	26.81	6.38	45.27*	9.66	13.05
90	[DH 18-31 x (DB 533 x DB 534 F4 IPS 30)]	2003.25	114.50	1.83	21.00	37.83	3.40	3.50	29.83	6.67	11.44	29.45	5.01	19.42	0.53	4.53	36.08	43.77	2.77	0.60	25.65	6.43	34.63	-2.78	0.23
91	[DH 18-31 x (DB 533 x DB 534 F4 IPS 25)]	2342.42	104.17	2.33	23.33	52.83	2.85	3.00	29.67	8.00	12.50	30.67	6.47	30.18	0.58	5.69	35.53	44.60	2.96	0.60	25.51	6.42	89.07**	13.68	17.20
92	[DH 18-31 x (DB 533 x DB 534 F4 IPS 49)]	2515.91	104.17	1.83	20.00	36.67	2.65	4.67	29.58	6.83	8.55	31.73	4.95	29.90	0.66	6.26	33.42	44.10	2.69	0.57	27.70	6.57	87.68**	22.10	25.88
93	[DH 18-31 x (DB 533 x DB 534 F4 IPS 23)]	2111.61	99.67	1.73	17.17	44.00	2.75	3.58	29.50	8.67	11.06	29.27	5.77	27.77	1.04	7.31	34.53	43.25	3.23	0.63	25.62	6.75	29.59	2.48	5.65
94	[DH 18-31 x (DB 533 x DB 534 F4 IPS 36)]	2007.93	105.33	1.83	21.00	50.83	3.10	3.33	29.50	7.50	11.55	32.14	5.26	30.39	0.60	6.90	35.77	43.68	2.67	0.58	26.63	6.48	28.55	-2.55	0.46
95	[DH 18-31 x (DB 533 x DB 534 F4 IPS 15)]	2271.56	109.17	1.33	21.67	44.00	3.55	3.17	29.00	7.83	9.74	29.46	4.59	20.69	0.66	4.83	33.47	45.20	2.75	0.59	28.16	6.52	73.02**	10.24	13.65
96	[DH 18-31 x (DB 533 x DB 534 F4 IPS 1)]	2297.61	91.67	1.33	18.67	38.00	3.45	2.75	28.75	6.33	9.50	27.90	5.25	25.35	0.51	4.42	33.78	44.10	2.61	0.57	27.83	6.38	62.43**	11.50	14.96
97	[DH 18-31 x (DB 533 x DB 534 F4 IPS 33)]	1899.57	91.67	1.33	18.67	38.00	3.45	2.75	28.75	6.83	10.86	29.98	5.06	25.98	0.72	7.49	32.85	44.57	2.74	0.59	27.68	6.65	8.63	-7.81	-4.96
98	[DH 18-31 x (DB 533 x DB 534 F4 IPS 24)]	1928.22	84.67	2.21	22.83	52.67	3.00	2.58	28.67	6.50	10.12	30.71	4.80	28.73	0.59	6.56	32.08	45.72	2.91	0.61	28.02	6.62	14.69	-6.42	-3.52
99	[DH 18-31 x (DB 533 x DB 534 F4 IPS 16)]	2424.73	93.33	1.83	20.67	54.33	2.80	3.42	28.67	6.50	9.51	31.34	5.81	25.40	0.51	6.00	33.53	44.45	2.72	0.58	27.04	6.75	69.3**	17.67	21.32
100	[DH 18-31 x (DB 533 x DB 534 F4 IPS 52)]	2490.38	93.83	2.05	20.17	39.67	3.25	3.50	28.33	7.00	9.00	31.41	6.11	32.00	0.68	6.92	35.32	43.47	2.77	0.58	27.32	6.58	62.36**	20.86	24.60
101	[DH 18-31 x (DB 533 x DB 534 F4 IPS 12)]	2120.47	102.00	1.78	24.33	48.33	3.90	2.03	28.25	5.67	12.39	28.53	4.59	28.52	0.64	6.05	34.35	45.87	2.89	0.61	27.40	6.37	25.29	2.91	6.09
102	[DH 18-31 x (DB 534 x DB 533 F4 IPS 22)]	2502.36	96.50	1.63	21.67	53.00	3.05	3.58	27.83	7.50	10.00	27.83	3.87	28.67	0.63	6.96	34.53	44.87	2.84	0.59	27.36	6.40	53.99**	21.44	25.20
103	[DH 18-31 x (DB 533 x DB 534 F4 IPS 14)]	2275.73	106.50	1.17	20.33	47.50	3.30	2.61	27.67	6.67	9.00	33.41	4.57	30.15	0.63	6.63	32.87	45.75	2.68	0.58	28.43	6.70	65.39**	10.44	13.86
104	[DH 18-31 x (DB 533 x DB 534 F4 IPS 34)]	2340.33	99.67	1.69	22.67	42.17	2.65	1.92	27.58	7.17	10.50	32.64	5.10	27.18	0.58	5.70	33.95	45.05	2.56	0.58	28.24	6.63	58.39**	13.58	17.09

