

Table 7 Pooled scores of F₄ barbadosense lines and hirsutum testers based on weighted percent *gca* method

Sl.No	Parents	Seed cotton yield (kg/ha)	Plant height (cm)	No. of monopodia	No. of sympodia	No. of bolls	Mean boll weight (g)	Reproductive Points on sympodia	Length of sympodia at 50 % height (cm)	Seed index (g)	Ginning outturn (%)	Lint index (g)	Photosynthetic rate ($\mu\text{mol CO}_2\text{m}^{-2}\text{s}^{-1}$)	Stomatal conductance ($(\mu\text{mol m}^{-2}\text{s}^{-1})$)	Transpiration rate ($\text{mmol H}_2\text{O m}^{-2}\text{s}^{-1}$)	Pooled <i>gca</i>
	Males	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	DB 533 x DB 534 F4 IPS 44	63	0.08	-9.04	-2.82	-45.375	-20.3	2.28	26.55	-24.16	29.205	-73.32	16.08	14.52	-17.92	-41.22
2	DB 533 x DB 534 F4 IPS 62	111.9	-10.14	5.64	6.06	39.82	-47.39	-25.64	-29.55	32.88	-15.51	55.315	25.76	4.83	-9.12	144.855
3	DB 533 x DB 534 F4 IPS 105	-37.1	-7.76	21.46	-12.09	-12.705	-40.67	6.84	-3.65	19.4	-20.13	-26.26	-123.12	-145.17	-3.75	-384.705
4	DB 533 x DB 534 F4 IPS 26	67.1	8.96	21.46	9	-20.075	-42.91	2.84	18.85	32.48	36.41	63.635	120.8	150	6.19	474.74
5	DB 533 x DB 534 F4 IPS 71	108.7	-17.66	3.38	9	23.98	9.03	-33.04	-22.85	-8.72	1.485	-4.16	-28.72	9.69	-4.23	45.885
6	DB 533 x DB 534 F4 IPS 30	36.8	19.48	-3.38	-10.41	-2.255	-106.12	16.52	43.8	51.48	14.245	71.89	-12.96	-62.91	-16.78	39.4
7	DB 533 x DB 534 F4 IPS 25	60.3	-2.08	-23.72	9.57	24.97	-18.06	-46.72	-16.95	-20.6	9.625	44.265	64.36	96.78	2.61	184.35
8	DB 533 x DB 534 F4 IPS 49	-106.3	11.04	-19.2	9.57	-23.54	31.64	41.6	24.6	0.8	-46.75	-77.415	-56.8	-43.56	-7.49	-261.805
9	DB 533 x DB 534 F4 IPS 23	-73.9	0.52	3.38	-0.99	29.92	47.39	10.82	4.725	-15.04	-44.495	-71.89	-124.56	-140.31	-16.94	-391.37
10	DB 533 x DB 534 F4 IPS 36	-162.1	25.58	2.26	8.43	57.145	9.03	35.32	36.375	7.12	-44.495	-35.945	-57.96	-19.35	5.21	-133.38
11	DB 533 x DB 534 F4 IPS 15	-121.6	9.32	0	-33.21	11.66	6.79	53	21.4	-32.88	-70.18	-120.315	-66.96	-43.56	-4.4	-390.935
12	DB 533 x DB 534 F4 IPS 1	-72.7	19.02	13.56	8.43	39.82	70	-27.36	-1.375	-33.28	-3.3	-62.205	-47.76	-14.52	4.89	-106.78
13	DB 533 x DB 534 F4 IPS 33	-118.2	-1.56	14.68	0.69	4.62	27.09	47.3	24.75	-5.96	-24.2	-84.37	1.48	4.83	-5.37	-114.22
14	DB 533 x DB 534 F4 IPS 24	-91.6	6.72	-25.98	15.48	65.56	-15.82	-15.38	-9.825	-1.2	-21.78	-73.32	41.84	48.39	2.61	-74.305
15	DB 533 x DB 534 F4 IPS 16	-91.8	-6.86	-15.82	0.15	11.165	-42.91	3.42	-18.475	5.16	54.12	46.995	33.64	-58.05	0.33	-78.935
16	DB 533 x DB 534 F4 IPS 52	-65.7	10.08	-4.52	24.21	-20.075	85.82	-25.64	-19.35	-16.24	30.47	52.585	26.6	43.56	14.82	136.62
17	DB 533 x DB 534 F4 IPS 12	-148.8	-27.74	4.52	-27.45	3.685	40.67	-40.46	-31.225	-11.08	30.47	20.735	-57.28	-91.95	-10.75	-346.655
18	DB 534 x DB 533 F4 IPS 22	-176.8	2.68	4.52	-2.25	6.16	-13.58	-22.22	-20.725	3.16	-9.79	-20.735	-58.6	-4.83	0.16	-312.85
19	DB 533 x DB 534 F4 IPS 14	-56.6	16.18	-7.9	10.14	-20.075	9.03	6.26	19.875	-34.04	-11.99	-62.205	-45.48	19.35	14.33	-143.125
20	DB 533 x DB 534 F4 IPS 34	-122.2	13.5	3.38	7.17	-18.645	-24.85	-6.26	1.525	15.44	-31.185	-80.21	-53.52	-33.87	-2.93	-332.655
21	DB 533 x DB 534 F4 IPS 55	-44	0.6	16.94	-1.56	32.89	42.91	-39.32	6.25	-23.36	-3.685	1.365	8.04	87.09	32.25	116.41
22	DB 533 x DB 534 F4 IPS 17	158.8	-20.2	-11.3	-8.01	-34.925	13.58	-13.68	-25.175	6.72	50.765	185.315	85.52	48.39	3.75	439.55
23	DB 533 x DB 534 F4 IPS 32	163.4	-11.64	-30.5	-4.5	-40.37	40.67	5.7	-18.925	46.32	12.21	77.415	45.64	-4.83	-6.84	273.75
24	DB 533 x DB 534 F4 IPS 38	108.2	-5.52	2.26	6.06	-51.315	-27.09	41.6	17.675	15.84	-3.52	71.89	26.44	38.7	-4.72	236.5
25	DB 533 x DB 534 F4 IPS 48	115.1	-11.48	45.2	9.57	-12.705	-70	-7.4	-24.525	-7.52	17.93	103.74	58.92	0	9.61	226.44
26	DB 533 x DB 534 F4 IPS 13	178.4	-10.36	20.34	-17.46	-58.245	24.85	-2.28	-11.65	16.24	13.09	-22.1	68.76	0	2.93	202.515
27	DB 533 x DB 534 F4 IPS 6	132.2	4.18	-23.72	-11.55	43.23	-4.55	17.1	21.1	-11.08	26.235	-15.21	50.4	0	1.79	230.125
28	DB 533 x DB 534 F4 IPS 8	185.4	-14.92	-10.16	-0.99	-34.43	9.03	14.24	-13.175	-8.32	25.135	34.58	59.24	96.78	9.61	352.02
	Females	48.3	0.94	-5.64	1.83	16.28	-2.24	5.12	4.3	5.56	-8.855	5.525				
1	DH 98-27	-26.9	2.64	-1.12	-1.98	-5.335	6.79	-9.68	-2.775	-2	2.75	-37.31	-8.68	-9.69	-3.09	-96.38
2	ZCH 8	-39.5	-4.7	0	-3.93	-22.22	-11.27	5.7	-1.6	13.48	10.505	29.055	5.92	14.52	3.26	-0.78
3	178-24	18.1	1.1	6.78	4.08	11.275	4.55	-1.14	0.15	-17.04	-4.455	2.795	-21.32	-33.87	-9.12	-38.115
4	DH 18-31	48.3	0.94	-5.64	1.83	16.28	-2.24	5.12	4.3	5.56	-8.855	5.525	24.12	24.18	8.96	128.38
	Weightage	10.00	2.00	2.00	3.00	5.50	7.00	2.00	2.50	4.00	5.50	6.50	4.00	3.00	1.00	