

Table 2 *Per se* performance of 28 barbadosense lines and 4 hirsutum testers for different quantitative characters

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)	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 %	Micronaire value ($\mu\text{g/inch}$)	Maturity ratio	Tenacity (g/t)	Elongation %
1	DB 533 x DB 534 F5 IPS 44	893.52	96.50	1.90	19.17	37.50	2.27	3.67	34.33	8.33	6.49	29.58	3.21	21.36	1.05	9.58	33.16	44.47	2.42	0.55	30.37	6.40
2	DB 533 x DB 534 F5 IPS 62	697.10	100.33	1.33	21.17	39.33	2.03	5.25	39.75	9.00	6.41	27.25	2.03	24.76	0.92	9.56	32.83	46.39	2.70	0.58	30.32	6.27
3	DB 533 x DB 534 F5 IPS 105	1052.42	97.83	1.50	18.83	34.50	2.20	4.47	35.83	8.17	9.57	31.13	4.43	21.89	0.73	16.66	33.94	45.27	2.90	0.58	29.76	6.84
4	DB 533 x DB 534 F5 IPS 26	766.91	82.00	0.67	15.83	25.33	2.37	4.08	28.42	7.17	8.53	29.19	3.58	24.45	0.74	9.14	31.94	45.60	2.73	0.57	28.11	6.44
5	DB 533 x DB 534 F5 IPS 71	783.06	88.50	1.51	18.17	28.33	2.13	4.93	35.92	7.50	9.56	30.85	3.37	18.66	0.59	8.00	31.59	44.87	3.22	0.62	28.56	6.61
6	DB 533 x DB 534 F5 IPS 30	669.49	89.83	1.17	18.33	29.67	3.23	3.89	33.25	7.83	7.72	29.05	3.24	24.38	0.68	8.62	33.09	44.57	3.02	0.59	28.26	6.84
7	DB 533 x DB 534 F5 IPS 25	959.68	83.50	1.90	18.33	30.67	2.27	4.08	30.17	6.67	9.55	32.45	4.72	24.12	0.71	9.68	30.54	46.27	3.43	0.63	27.75	6.77
8	DB 533 x DB 534 F5 IPS 49	1368.15	83.00	1.00	16.17	25.67	2.73	3.67	34.50	8.67	9.50	24.77	3.35	26.80	0.87	9.65	33.69	45.64	3.03	0.59	28.05	6.49
9	DB 533 x DB 534 F5 IPS 23	710.64	80.33	0.39	14.83	28.00	1.90	4.00	28.83	7.33	8.45	30.63	3.59	22.25	0.84	9.35	34.21	42.69	2.72	0.59	29.36	6.52
10	DB 533 x DB 534 F5 IPS 36	670.01	82.33	0.73	17.83	29.50	1.93	4.08	29.25	7.83	7.55	27.73	2.86	20.17	0.62	8.26	35.49	44.70	2.86	0.58	28.89	6.45
11	DB 533 x DB 534 F5 IPS 15	828.91	80.00	0.83	17.50	25.83	2.67	3.83	35.33	8.33	7.39	31.33	3.27	18.04	0.55	8.28	35.53	44.49	2.86	0.57	29.07	6.29
12	DB 533 x DB 534 F5 IPS 1	858.09	67.67	0.50	13.83	26.83	2.37	3.08	26.08	6.50	9.61	30.94	3.96	22.19	0.71	8.87	34.52	46.14	3.27	0.62	28.02	6.69
13	DB 533 x DB 534 F5 IPS 33	441.81	77.33	1.28	17.00	31.17	1.67	4.25	30.75	9.00	7.55	27.85	3.32	22.43	0.89	9.59	35.31	44.85	2.78	0.57	29.51	6.35
14	DB 533 x DB 534 F5 IPS 24	585.08	74.67	0.95	18.17	31.50	2.27	3.91	29.17	8.67	8.59	27.86	2.93	22.73	0.76	8.48	34.78	43.99	2.78	0.57	29.08	6.40
15	DB 533 x DB 534 F5 IPS 16	1012.82	76.17	0.53	15.33	25.67	2.27	4.08	28.33	6.17	8.83	32.42	4.31	26.69	1.29	9.43	33.61	43.91	3.18	0.61	27.93	6.64
16	DB 533 x DB 534 F5 IPS 52	1092.54	72.67	0.89	15.67	27.00	2.50	3.50	26.25	6.83	10.06	31.86	3.56	25.84	0.82	8.85	35.24	43.92	3.15	0.59	26.52	6.41
17	DB 533 x DB 534 F5 IPS 12	764.31	79.50	0.33	15.83	27.83	2.17	4.42	30.08	8.00	9.78	28.62	4.23	23.85	0.72	8.67	34.06	46.04	3.03	0.59	28.26	6.50

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18	DB 534 x DB 533 F5 IPS 22	1250.40	72.67	0.90	16.50	37.33	2.57	4.98	33.50	8.50	9.89	34.00	4.67	25.43	0.77	8.79	32.91	45.85	3.28	0.60	29.07	6.70
19	DB 533 x DB 534 F5 IPS 14	848.71	80.17	1.06	16.00	28.50	2.20	4.25	35.42	7.67	8.75	26.32	3.44	18.51	0.56	7.92	33.56	45.49	3.23	0.60	29.35	6.71
20	DB 533 x DB 534 F5 IPS 34	947.18	65.33	0.37	16.00	24.67	2.40	3.35	25.50	7.33	10.94	28.61	4.16	23.75	0.63	8.09	38.16	42.64	2.72	0.56	28.86	6.34
21	DB 533 x DB 534 F5 IPS 55	945.62	76.67	0.42	15.83	30.50	2.23	3.75	27.33	7.33	8.95	31.94	3.68	18.00	2.38	8.63	35.59	45.15	3.17	0.60	28.21	6.51
22	DB 533 x DB 534 F5 IPS 17	1037.31	67.83	0.58	15.00	28.33	2.33	3.42	26.08	8.17	8.44	30.23	4.45	19.63	0.57	8.17	33.66	44.22	2.95	0.58	27.90	6.57
23	DB 533 x DB 534 F5 IPS 32	606.97	74.17	1.17	13.83	27.83	1.77	3.92	31.50	8.17	7.62	26.20	2.95	23.70	0.74	9.58	35.23	43.21	2.67	0.55	29.11	6.47
24	DB 533 x DB 534 F5 IPS 38	754.93	87.00	1.28	14.17	30.00	1.73	4.08	31.75	7.83	8.88	28.57	4.11	26.54	0.73	8.93	32.97	45.69	2.49	0.55	29.68	6.44
25	DB 533 x DB 534 F5 IPS 48	993.55	73.50	1.90	16.67	38.17	2.47	5.08	29.42	8.50	8.47	30.09	4.01	24.91	0.66	9.85	35.13	44.04	3.11	0.60	27.28	6.52
26	DB 533 x DB 534 F5 IPS 13	881.01	68.83	1.33	19.33	32.17	2.17	3.42	31.50	7.33	8.78	29.33	4.25	27.15	1.00	10.20	32.92	44.56	3.16	0.60	28.78	6.57
27	DB 533 x DB 534 F5 IPS 6	844.54	70.33	2.50	20.00	29.83	1.97	3.98	25.75	9.33	9.12	28.85	3.75	20.60	0.77	9.34	33.64	44.22	2.85	0.56	28.92	6.64
28	DB 533 x DB 534 F5 IPS 8	866.42	77.33	1.00	21.00	32.17	2.07	3.28	24.17	9.00	9.00	32.42	4.20	16.49	0.67	9.25	34.34	45.14	2.84	0.59	28.71	6.37
	Mean	861.83	79.50	1.07	17.01	30.14	2.25	4.03	30.65	7.90	8.71	29.65	3.70	22.69	0.82	9.27	33.99	44.79	2.95	0.59	28.70	6.53
	Max	1368.15	100.33	2.5	21.17	39.33	3.23	5.25	39.75	9.33	10.94	34	4.72	27.15	2.38	16.66	38.16	46.39	3.43	0.63	30.37	6.84
	Min	441.81	65.33	0.33	13.83	24.67	1.67	3.08	24.17	6.17	6.41	24.77	2.03	16.49	0.55	7.92	30.54	42.64	2.42	0.55	26.52	6.27
1	DH 98-27	2503.93	94.00	1.42	20.67	34.67	4.30	3.12	28.50	8.67	9.72	35.20	6.14	23.64	0.96	10.09	29.12	49.11	4.37	0.69	22.90	5.81
2	ZCH8	2368.99	97.33	1.90	19.83	28.17	3.95	3.50	35.08	8.67	10.44	37.84	6.18	22.35	0.81	10.68	28.65	48.11	4.45	0.69	21.70	5.88
3	178-24	1870.91	93.50	1.00	18.33	24.50	4.45	3.08	30.17	9.17	11.67	34.25	6.40	29.62	1.22	11.77	32.52	44.31	4.19	0.68	22.72	5.71
4	DH18-31	2074.10	100.67	0.50	22.83	25.67	4.45	3.89	38.92	9.17	9.83	39.14	6.56	21.20	0.78	10.55	27.85	47.88	4.87	0.72	20.01	5.41
	Mean	2204.48	96.38	1.20	20.42	28.25	4.29	3.40	33.17	8.92	10.42	36.61	6.32	24.20	0.94	10.77	29.53	47.35	4.47	0.69	21.83	5.70
	Max	2503.93	100.67	1.90	22.83	34.67	4.45	3.89	38.92	9.17	11.67	39.14	6.56	29.62	1.22	11.77	32.52	49.11	4.87	0.72	22.90	5.88
	Min	1870.91	93.50	0.50	18.33	24.50	3.95	3.08	28.50	8.67	9.72	34.25	6.14	21.20	0.78	10.09	27.85	44.31	4.19	0.68	20.01	5.41