

Cotton Genomics and Genetics

2013, Vol.4, No.1, 1-12 <http://cgg.sophiapublisher.com>



Table 2 Per se performance of 53 barbadense lines for different quantitative characters

Sl. No	Parents	Seed cotton yield (kg/ha)	Plant height (cm)	No. of Mono podia	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)	Photo Synthesis Rate ($\mu\text{mol CO}_2\text{m}^{-2}\text{s}^{-1}$)	Stomatal Condu ctance ($(\mu\text{mol m}^{-2}\text{s}^{-1})$)	Transpi ration Rate (mmol H ₂ O m ⁻² s ⁻¹)	2.5% SL (mm)	UR %	Micronaire value ($\mu\text{g/inch}$)	Maturity Ratio	Tenacity (g/t)	S/L ratio	Elongation %
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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	0.92	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	0.92	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	0.88	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	0.88	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	0.90	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	0.85	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	0.91	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	0.83	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	0.86	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	0.81	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	0.82	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	0.81	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	0.84	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	0.84	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	0.83	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	0.75	6.41

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Continuing table 2

Sl. No	Parents	Seed cotton yield (kg/ha)	Plant height (cm)	No. of Mono podia	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)	Photo Synthesis Rate ($\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$)	Stomatal Condu ctance ($(\mu\text{mol m}^{-2} \text{ s}^{-1})$)	Transpi ration Rate (mmol $\text{H}_2\text{O m}^{-2} \text{ s}^{-1}$)	2.5% SL (mm)	UR %	Micronaire value ($\mu\text{g/inch}$)	Maturity Ratio	Tenacity (g/t)	S/L ratio	Elongation %
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
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	0.83	6.50
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	0.88	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	0.87	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	0.76	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	0.79	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	0.83	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	0.83	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	0.90	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	0.78	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	0.87	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	0.86	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	0.84	6.37
29	DB 533 x DB 534 F5 IPS 61	1328.03	74.33	1.00	20.50	30.00	2.50	2.83	30.33	8.67	9.00	29.78	3.82	17.06	0.57	8.47	32.12	45.61	3.60	0.62	28.39	0.88	6.88
30	DB 533 x DB 534 F5 IPS 27	1157.66	68.83	1.50	20.00	34.83	2.47	3.00	21.67	9.83	9.00	28.72	3.63	19.00	0.68	8.72	34.82	45.48	3.41	0.58	30.42	0.87	6.24
31	Suvin	1421.81	83.00	0.83	19.00	31.17	2.57	3.08	29.25	8.33	9.00	31.94	4.22	25.88	0.90	10.06	33.58	45.41	3.77	0.64	29.02	0.86	6.54
32	DB 533 x DB 534 F5 IPS 96	1296.77	71.33	1.00	16.67	22.50	2.57	2.92	24.33	8.83	7.00	32.14	3.32	14.04	0.54	8.38	31.52	46.78	3.75	0.63	30.32	0.96	6.74
33	DB 533 x DB 534 F5 IPS 88	1566.65	90.17	1.33	20.00	35.33	2.50	3.17	33.58	8.50	8.00	30.50	3.51	17.02	0.52	7.77	33.15	46.38	3.52	0.62	31.67	0.96	6.68
34	DB 533 x DB 534 F5 IPS 4	1336.37	86.33	1.17	21.67	31.50	2.13	3.00	32.08	7.33	7.00	29.22	2.89	14.60	0.56	8.26	28.78	47.48	3.40	0.60	29.02	1.01	6.51

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Continuing table 2

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
35	DB 533 x DB 534 F5 IPS 68	976.88	88.83	1.00	20.83	29.50	2.53	2.67	24.00	8.33	9.00	26.67	3.27	18.29	1.15	11.15	37.35	44.64	3.01	0.58	30.45	0.82	6.38
36	DB 533 x DB 534 F5 IPS 11	1791.72	74.33	1.33	15.33	30.00	2.50	3.08	22.42	8.50	9.00	30.05	3.87	19.64	0.64	9.13	31.98	46.91	3.65	0.62	28.78	0.90	6.91
37	DB 533 x DB 534 F5 IPS 20	1290.52	87.67	1.00	21.83	25.83	2.73	2.67	26.42	9.00	10.00	27.04	3.71	21.10	0.69	8.17	34.18	45.84	3.40	0.60	29.85	0.87	6.64
38	DB 533 x DB 534 F5 IPS 112	1266.03	90.83	1.00	20.33	26.83	2.50	3.17	29.75	9.17	10.00	26.47	3.60	16.95	0.94	11.72	38.08	43.88	3.74	0.63	29.51	0.77	6.64
39	DB 533 x DB 534 F5 IPS 35	1184.75	89.50	0.83	20.50	24.33	2.67	3.17	27.83	8.83	9.00	28.99	3.67	21.99	0.92	10.25	33.28	46.01	3.94	0.64	28.86	0.87	6.84
40	DB 533 x DB 534 F5 IPS 2	1247.80	86.83	0.67	19.50	25.50	2.85	3.08	30.50	9.00	8.00	30.14	3.45	20.69	0.79	11.45	35.85	44.38	3.18	0.58	27.08	0.76	6.18
41	DB 533 x DB 534 F5 IPS 79	1559.35	80.33	1.17	20.67	28.17	2.63	3.00	27.08	8.50	8.00	33.61	4.05	14.52	0.70	8.56	32.42	46.14	3.87	0.64	30.64	0.95	6.91
42	DB 533 x DB 534 F5 IPS 10	1454.11	94.50	1.83	21.17	31.33	2.33	3.17	31.33	8.83	9.00	34.64	4.77	20.16	2.03	13.62	33.08	45.11	4.07	0.65	30.75	0.93	6.74
43	DB 533 x DB 534 F5 IPS 57	1564.56	90.00	1.33	19.17	26.67	2.87	2.92	29.50	8.00	8.00	35.23	4.35	21.73	0.70	9.12	32.65	45.44	4.03	0.64	30.80	0.94	6.94
44	DB 533 x DB 534 F 3 IPS 19	1383.78	71.83	0.17	18.17	28.33	2.80	3.00	25.00	7.17	9.00	33.63	4.56	12.59	0.42	7.23	32.75	47.54	4.39	0.70	29.98	0.92	6.91
45	DB 533 x DB 534 F5 IPS 101	1410.35	78.33	1.50	18.33	30.83	2.87	2.58	22.83	7.83	12.00	30.56	5.28	19.77	0.57	8.93	31.48	46.01	4.47	0.69	29.24	0.93	6.94
46	DB 533 x DB 534 F5 IPS 65	1541.12	83.83	1.17	20.00	31.50	2.80	2.67	24.50	8.00	9.00	34.76	4.79	22.29	0.85	10.51	33.08	46.74	4.02	0.65	30.39	0.92	6.64
47	DB 533 x DB 534 F5 IPS 39	1727.64	92.17	0.83	19.17	29.67	2.57	2.92	28.00	8.00	9.00	33.53	4.54	15.66	0.63	8.40	33.25	46.44	4.12	0.65	29.35	0.88	6.51
48	DB 533 x DB 534 F5 IPS 37	1728.68	89.83	1.00	24.83	33.17	2.93	3.08	28.58	7.50	10.00	30.97	4.49	20.60	0.74	10.14	35.75	45.78	3.72	0.63	29.17	0.82	6.74
49	DB 533 x DB 534 F5 IPS 109	1934.47	87.83	0.83	19.83	31.67	2.42	3.25	29.33	8.50	9.00	32.65	4.36	11.96	0.45	7.70	33.32	45.41	3.92	0.64	30.05	0.90	6.74
50	DB 533 x DB 534 F5 IPS 80	1994.39	79.83	1.33	21.33	34.17	2.30	3.42	28.58	9.00	10.00	29.94	4.27	13.08	0.42	8.34	37.42	45.98	3.46	0.59	30.23	0.81	6.71
51	DB 533 x DB 534 F5 IPS 132	2175.70	87.50	1.67	19.83	29.67	3.17	2.92	32.08	8.00	11.00	31.09	4.96	9.52	0.30	7.13	35.58	46.64	3.72	0.64	28.63	0.80	6.41
52	DB 533 x DB 534 F5 IPS 18	2151.21	91.83	2.17	21.50	27.67	2.93	3.00	30.83	8.83	10.00	35.13	5.41	19.10	0.61	9.51	32.12	45.78	4.14	0.65	29.15	0.91	6.88

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
53	DB 533 x DB 534 F5 IPS 21	1855.80	96.17	1.17	22.50	32.33	2.87	2.92	26.33	9.00	10.00	29.24	4.13	23.62	0.79	10.06	37.42	44.84	3.38	0.58	29.05	0.78	6.28
	Mean	1178.82	81.92	1.11	18.47	29.93	2.43	3.54	29.33	8.16	8.90	30.32	3.90	20.49	0.77	9.28	33.90	45.30	3.32	0.61	29.14	0.86	6.59
	Max	2175.70	100.33	2.50	24.83	39.33	3.23	5.25	39.75	9.83	12.00	35.23	5.41	27.15	2.38	16.66	38.16	47.54	4.47	0.70	31.67	1.01	6.94
	Min	441.81	65.33	0.17	13.83	22.50	1.67	2.58	21.67	6.17	6.41	24.77	2.03	9.52	0.30	7.13	28.78	42.64	2.42	0.55	26.52	0.75	6.18