Verticillium Wilt Trials for 2018

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Verticillium wilt was a significant yield deterrent at all three sites.

Trial Information:

Floydada: Planted 5 May. The first water to germinate seed occurred on 15 May. Harvested on 27 October. Center pivot irrigation system. Tables 1 and 2.

Plainview: Planted 11 May, and replanted trial on 1 June. Harvested on 3 December. Center pivot irrigation system. Tables 3 and 4.

Ropesville: Planted 22 May. Harvested on 15 November. Center pivot irrigation system. Tables 5 and 6.

Plots were 2-rows wide (40-inch centers) and 36 feet long, and each cultivar was replicated four times in the trial.

Combined Analysis of all three trials: Table 7.

Table 1. Verticillium Wilt Trial at Floydada with moderate disease pressure.

Cultivar[a]	Lint Yield (lbs/a)	Yield x Loan ($/A)	%Wilt on 8/23	% Defol-iation	Plants /foot of row	Turnout	Loan Value (¢/lb)
FM 2322GL	1,450	735.15	19.2	41.3	1.72	0.335	50.70
FM 2498GLT	1,402	744.75	15.7	53.6	2.93	0.304	53.13
NG 3500XF	1,300	663.00	24.8	54.2	1.71	0.312	51.02
FM 1911GLT	1,288	674.39	12.6	34.1	2.55	0.308	52.37
NG 3640XF	1,263	648.68	24.1	46.1	2.06	0.284	51.35
PHY 320W3FE	1,257	593.56	24.3	56.1	2.78	0.292	47.22
CPS18703GLT	1,246	620.13	18.2	51.4	2.61	0.305	49.79
NG 3517B2XF	1,235	647.27	23.9	49.2	1.97	0.292	52.40
FM 1888GL	1,233	623.78	21.3	36.0	1.88	0.305	50.58
FM 2484B2F	1,223	603.31	11.1	27.9	2.50	0.299	49.33
NG 3930B3XF	1,221	588.77	15.1	38.9	2.59	0.294	48.24
DG H929B3XF	1,195	567.63	28.2	51.5	2.14	0.297	47.52
DP 1822XF	1,186	620.96	16.3	52.5	2.07	0.299	52.38
FM 2398GLTP	1,170	629.69	11.5	30.9	1.89	0.332	53.82
PHY 250W3FE	1,148	564.70	15.4	39.6	2.84	0.297	49.19
PHY 210W3FE	1,141	575.99	23.5	33.1	2.73	0.297	50.47
PX3C06W3FE	1,138	564.23	21.1	30.6	2.52	0.295	49.57
DP 1820B3XF	1,134	567.57	33.1	47.2	1.02	0.325	50.05
FM 2574GLT	1,132	572.54	17.1	52.9	1.72	0.311	50.60
PHY 350W3FE	1,128	566.01	16.4	34.2	2.78	0.295	50.20
PX3B07W3FE	1,128	544.02	22.5	69.8	2.75	0.294	48.25
PHY 330W3FE	1,074	490.60	45.0	72.5	2.20	0.284	45.69
PHY 39W3FE	1,061	494.19	11.0	24.6	2.76	0.285	46.60
NG 3780B2XF	1,058	511.54	22.5	71.3	1.86	0.272	48.35
PX3B09W3FE	1,052	497.71	21.2	64.7	2.83	0.294	47.30
NG 4545B2XF	1,042	532.88	33.8	52.5	1.52	0.288	51.14
DP 1612B2XF	1,034	495.68	34.3	81.9	2.31	0.291	47.95
CG 3885B2XF	1,022	535.25	27.8	79.0	2.17	0.313	52.36
NG 4689B2XF	1,002	482.36	20.5	50.5	2.06	0.292	48.14
DP 1646B2XF	995	540.25	32.9	60.9	1.38	0.333	54.31
AMX1818B3XF	986	499.45	22.4	45.5	1.53	0.302	50.68
NG 3699B2XF	974	435.49	31.5	61.8	1.50	0.265	44.70
PHY340W3FE	967	435.75	35.6	70.9	2.26	0.271	45.05
FM 1830GLT	950	498.96	13.8	43.6	1.95	0.325	52.55
CPS18269GLTP	929	453.57	23.8	76.7	2.15	0.306	48.85
CG 9178B3XF	868	409.40	39.8	75.5	1.09	0.302	47.18
MSD (0.05)	194	92.96	12.4	13.1	0.26	0.023	4.28

[a]Cultivars that start with AMX are experimental lines for Americot; CG are varieties for Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG are DynaGro; DP are Deltapine, FM are Fibermax; NG are NexGen, PHY are Phytogen; PX are experimental lines for Phytogen.

Table 2. Fiber data for Verticillium trial at Floydada.

Cultivar[a]	Mic[b]	Length	Unif.	Stren.	Elong.	Rd	+b	Leaf	Color grade
AMX1818B3XF	4.20	1.15	82.6	33.2	6.8	73.1	6.5	4.0	51-1
CG 3885B2XF	3.74	1.07	80.9	29.6	7.6	73.4	7.0	2.0	41-2
CG 9178B3XF	3.21	1.13	82.0	33.8	6.0	71.3	7.1	5.5	51-1
CPS18269GLTP	2.92	1.14	81.9	33.4	6.8	73.1	7.4	4.5	41-2
CPS18703GLT	3.39	1.14	80.9	31.3	5.7	74.9	6.7	4.0	51-1,41-2
DG H929B3XF	3.68	1.03	81.5	31.7	8.5	71.8	7.5	3.5	51-1,41-2
DP 1612B2XF	3.34	1.12	81.0	33.0	7.4	70.4	7.0	4.5	51-1
DP 1646B2XF	3.70	1.16	80.9	30.6	6.5	75.1	6.7	2.5	41-2
DP 1820B3XF	4.06	1.14	79.9	31.2	4.6	71.8	6.8	3.5	51-1
DP 1822XF	3.71	1.14	81.8	33.5	5.5	73.5	6.8	3.0	51-1,41-2
FM 1830GLT	3.74	1.18	81.4	32.1	5.2	74.1	6.3	3.5	51-1,41-2
FM 1888GL	3.54	1.15	82.2	32.9	4.1	73.5	6.3	5.0	51-1
FM 1911GLT	3.57	1.17	81.9	31.3	5.4	73.9	6.4	4.0	51-1,41-2
FM 2322GL	3.71	1.16	81.7	32.6	4.1	71.9	6.4	5.0	51-1
FM 2398GLTP	4.02	1.14	82.0	32.2	5.3	74.2	7.0	3.0	41-1,41-2
FM 2484B2F	3.17	1.18	82.4	33.2	5.7	75.3	5.9	4.5	51-1,41-2
FM 2498GLT	3.47	1.16	82.1	32.8	5.3	75.0	6.3	4.0	41-2
FM 2574GLT	3.54	1.17	80.8	32.7	5.3	74.0	6.1	4.5	51-1
NG 3500XF	4.00	1.09	82.4	31.3	6.8	71.4	7.5	3.5	51-1,41-2
NG 3517B2XF	3.41	1.14	82.2	32.4	6.6	73.8	6.9	4.5	41-2
NG 3640XF	3.77	1.10	82.6	32.8	7.1	72.3	7.3	4.5	51-1,41-2
NG 3699B2XF	3.01	1.14	80.4	31.5	5.3	71.7	7.0	5.5	51-1
NG 3780B2XF	3.32	1.13	80.7	32.0	6.8	71.3	6.6	6.5	51-1
NG 3930B3XF	3.39	1.15	82.8	31.3	5.7	72.3	6.7	4.0	51-1
NG 4545B2XF	3.55	1.10	80.8	31.1	5.0	73.3	7.4	3.5	41-2
NG 4689B2XF	3.53	1.07	80.4	31.6	5.1	72.2	7.3	4.0	51-1
PHY 39W3FE	3.30	1.16	79.9	32.0	5.6	73.1	6.6	5.5	51-1
PHY 210W3FE	3.73	1.13	82.6	32.0	5.0	73.7	6.6	3.5	51-1
PHY 250W3FE	3.54	1.13	81.9	31.7	5.1	73.5	6.2	4.5	51-1
PHY 320W3FE	3.17	1.13	82.5	31.9	6.6	71.4	6.3	5.0	51-1
PHY 330W3FE	3.07	1.12	81.0	31.2	5.7	71.0	7.0	5.0	51-1
PHY 340W3FE	2.97	1.12	81.2	30.5	5.7	71.5	6.9	5.5	51-1
PHY 350W3FE	3.51	1.13	81.4	31.5	6.7	73.6	6.6	4.0	51-1,41-2
PX3B07W3FE	2.93	1.12	80.1	32.3	5.9	74.3	6.7	4.0	41-2
PX3C06W3FE	3.54	1.11	80.1	29.9	5.7	70.6	5.9	6.0	51-1,51-2
PX3B09W3FE	2.94	1.12	79.8	31.6	5.7	74.8	6.8	4.0	41-2
MSD (0.05)	0.36	0.04	2.1	2.68	1.86	1.7	0.6	1.9	

[a]Cultivars that start with AMX are experimental lines for Americot; CG are varieties for Croplan Genetics; CPS are experimental lines for DynaGro/All-Tex Cotton; DG are DynaGro; DP are Deltapine, FM are Fibermax; NG are NexGen, PHY are Phytogen; PX are experimental lines for Phytogen.

[b]Micronaire (mic), uniformity (unif), strength (stren), and elongation (elon).

Table 3. Variety trial near Plainview with severe Verticillium wilt.

Cultivar[a]	Lint Yield (lbs/a)	Lint yield X loan ($/acre)	Loan Value (¢/lb)	Turnout	%Wilt on 8/22	%Defol-iation on 9/17	Plants/ ft. of row
NG 3500XF	1,021	510.05	49.98	0.238	67.0	41.4	1.95
NG 3640XF	968	471.10	48.68	0.237	54.4	29.2	1.97
DP 1822XF	958	464.99	48.55	0.260	70.7	47.2	1.90
FM 1830GLT	950	427.86	45.05	0.284	59.4	32.4	1.89
AMX1823B3XF	897	394.95	44.03	0.240	48.5	48.6	2.08
FM 2484B2F	827	359.12	43.45	0.233	46.8	25.4	2.07
FM 1888GL	797	369.30	46.35	0.245	60.2	35.2	1.68
PHY 39W3FE	792	343.62	43.40	0.230	67.3	24.8	2.08
NG 3956B3XF	787	364.11	46.25	0.239	47.7	57.8	2.37
PHY 350W3FE	749	329.52	43.98	0.231	55.3	46.8	2.16
PHY 210W3FE	731	362.92	49.63	0.252	73.8	37.3	1.99
PX3C06W3FE	720	321.12	44.63	0.246	63.1	56.0	2.13
DP 1820B3XF	709	335.33	47.33	0.244	67.2	39.8	1.72
CPS18506BB3XF	700	317.91	45.40	0.293	62.4	54.7	2.02
WU18XC9	700	312.31	44.60	0.213	63.5	22.8	1.80
NG 3517B2XF	698	324.80	46.55	0.229	58.3	72.3	2.21
FM 1911GLT	696	306.37	44.05	0.245	37.3	29.0	2.05
PHY 250W3FE	652	292.07	44.83	0.222	67.3	44.3	2.11
PHY 320W3FE	611	262.70	43.03	0.214	47.0	46.8	2.20
CPS18450B2F	604	293.61	48.65	0.242	60.9	66.1	2.03
CG 3527B2XF	590	274.12	46.48	0.251	58.0	50.6	1.95
FM 1621GL	583	254.48	43.65	0.228	56.6	35.8	1.91
NG 3780B2XF	577	279.56	48.45	0.211	61.2	61.9	2.13
CG 3475B2XF	570	271.20	47.60	0.272	81.7	78.2	2.15
DP 1725B2XF	556	252.82	45.45	0.231	71.2	50.6	1.66
ST 5122GLT	556	240.47	43.23	0.232	66.7	66.0	2.07
NG 2982B3XF	545	237.78	43.65	0.228	57.2	59.9	1.93
NG 3699B2XF	537	230.54	42.93	0.219	55.4	66.9	1.89
PX3B09W3FE	494	206.75	41.83	0.245	67.0	72.0	2.14
FM 2322GL	487	222.97	45.83	0.233	55.1	49.8	1.58
DG 3421B3XF	478	204.00	42.70	0.192	57.3	28.6	1.73
PX3B07W3FE	452	188.29	41.68	0.238	63.2	64.9	2.30
CPS18864GLTP	450	199.49	44.33	0.213	64.7	40.0	1.90
CPS18504DB3XF	449	190.84	42.48	0.213	82.5	28.2	1.16
PHY 300W3FE	427	183.74	43.03	0.214	67.5	64.0	2.12
DP 1612B2XF	424	195.89	46.20	0.237	82.3	81.2	2.03
PHY 330W3FE	420	178.10	42.43	0.227	63.4	60.4	2.10
BX1972GLTP	411	180.64	43.95	0.210	70.7	51.7	1.88
FM 1953GLTP	402	185.24	46.05	0.235	79.4	75.3	2.07
PHY 340W3FE	351	149.42	42.60	0.218	67.4	71.3	2.18
MSD (0.05)	74	33.89	4.54	0.045	19.0	13.1	0.24

[a]AMX are experimental lines for Americot; BX are experimental lines for BASF; CG is Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG is DynaGro; DP is Deltapine, FM is Fibermax; NG is NexGen, PHY is Phytogen; PX are experimental lines for Phytogen; ST is Stoneville; WU are experimental lines for Winfield.

Table 4. Fiber data from the Verticillium wilt trial at Plainview.

Cultivar[a]	Mic	Length	Unif.	Stren.	Elong.	Rd	+b	Leaf	Color grade
AMX1823B3XF	2.46	1.11	79.2	28.0	7.2	79.5	7.4	4.0	31-1,31-2
BX1972GLTP	2.40	1.13	79.5	28.1	6.8	79.5	6.8	5.0	31-2,41-1
CG 3475B2XF	2.83	1.11	80.4	30.0	7.4	77.9	7.2	5.0	31-1,41-1
CG 3527B2XF	2.71	1.13	79.8	27.3	6.9	77.6	7.0	5.5	31-2,41-1
CPS18450B2F	2.59	1.15	80.5	29.9	6.5	81.7	7.3	3.0	21-2,31-1
CPS18504DB3XF	2.27	1.12	77.6	25.2	6.5	81.1	6.7	3.5	31-1,31-2
CPS18506BB3XF	2.69	1.10	78.2	28.0	5.9	77.4	7.1	4.0	31-2,41-1
CPS18864GLTP	2.19	1.12	78.5	29.1	5.7	78.7	7.8	4.5	21-2,31-2
DG 3421B3XF	2.13	1.10	78.2	26.6	7.0	78.2	7.5	5.0	21-2,41-1
DP 1612B2XF	2.63	1.13	80.6	30.1	7.4	76.3	7.0	5.5	41-1
DP 1725B2XF	2.47	1.11	78.2	27.4	5.9	79.7	7.8	3.0	31-1
DP 1820B3XF	2.59	1.18	80.5	30.2	5.9	81.5	6.8	3.5	31-1
DP 1822XF	2.65	1.19	80.6	30.5	6.0	80.6	7.0	4.0	31-1,31-2
FM 1621GL	2.47	1.15	80.7	28.6	6.0	77.0	6.5	7.5	41-1,41-2
FM 1830GLT	2.47	1.19	80.2	30.4	6.1	79.2	6.9	5.5	31-1,41-1
FM 1888GL	2.56	1.16	81.4	30.2	5.2	76.7	7.0	6.0	31-2,41-2
FM 1911GLT	2.23	1.13	78.6	27.8	6.1	82.2	6.5	4.5	31-1
FM 1953GLTP	2.50	1.13	79.4	29.1	7.3	81.3	7.0	4.0	21-2,31-1
FM 2322GL	2.53	1.17	81.1	30.0	5.6	77.2	6.4	5.5	41-1,41-2
FM 2484B2F	2.26	1.16	78.8	27.7	5.6	80.0	6.6	4.5	31-1,41-1
NG 2982B3XF	2.43	1.13	81.5	32.0	6.9	74.8	6.2	6.5	41-2
NG 3500XF	2.85	1.11	81.4	29.9	7.1	79.0	7.9	4.0	31-1
NG 3517B2XF	2.71	1.11	80.6	30.3	6.9	79.7	7.3	4.0	31-1,41-1
NG 3640XF	2.71	1.11	80.6	30.3	6.7	78.9	8.1	3.5	31-1
NG 3699B2XF	2.42	1.14	78.2	27.6	5.4	76.5	7.0	5.0	41-1
NG 3780B2XF	2.70	1.12	79.1	28.9	7.3	78.3	7.5	4.5	31-2
NG 3956B3XF	2.65	1.13	80.7	29.0	7.4	79.0	6.8	5.5	31-2,41-1
PHY 39W3FE	2.43	1.17	79.6	28.9	6.1	77.4	6.8	5.0	41-1
PHY 210W3FE	2.84	1.13	81.3	30.0	6.3	81.6	6.9	2.5	21-1,31-1
PHY 250W3FE	2.38	1.13	79.6	29.2	5.1	80.8	6.8	4.0	31-1,31-2
PHY 300W3FE	2.39	1.09	79.7	27.3	6.4	76.4	7.4	3.5	31-1,41-2
PHY 320W3FE	2.18	1.10	79.2	28.1	7.0	79.7	7.2	4.0	31-1,31-2
PHY 330W3FE	2.46	1.10	78.4	27.5	6.1	77.4	7.2	5.5	41-1
PHY 340W3FE	2.38	1.09	79.0	26.7	6.5	77.3	7.5	5.5	31-2,41-1
PHY 350W3FE	2.33	1.11	78.1	27.4	6.6	80.8	6.8	4.0	31-1,31-2
PX3B07W3FE	2.35	1.10	78.6	27.2	6.1	79.1	6.9	4.5	31-2,41-1
PX3B09W3FE	2.33	1.09	77.8	27.3	6.1	78.1	6.8	6.0	31-2,41-1
PX3C06W3FE	2.63	1.09	78.1	27.6	7.0	77.3	6.8	5.0	31-2,41-2
ST 5122GLT	2.43	1.10	78.5	27.8	6.8	81.1	7.5	3.5	31-1
WU18XC9	2.44	1.17	79.5	29.3	6.7	79.5	6.9	4.0	31-1,41-1
MSD (0.05)	0.29	0.03	2.2	1.7	0.7	3.6	0.7	2.6	

[a]AMX are experimental lines for Americot; BX are experimental lines for BASF; CG is Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG=DynaGro; DP is Deltapine, FM is Fibermax; NG is NexGen, PHY is Phytogen; PX are experimental lines for Phytogen; ST is Stoneville; WU are experimental lines for Winfield.

[b]Micronaire (mic), uniformity (unif), strength (stren), and elongation (elon).

Table 5. Verticillium wilt trial in Ropesville with moderate disease pressure and some Root-knot nematode (RK/500 cm^3 soil).

Cultivar[a]	Lint yield (lbs/a)	Yield X loan ($/acre)	Loan Value (¢/lb)	Turn out	%Wilt on 30 Aug.	Defolia-tion (%)	Plants/ ft. row	RK
NG 4792XF	1,365	748.43	54.83	0.314	38.1	39.3	2.44	1,810
FM 1911GLT	1,352	742.25	54.90	0.314	25.6	31.3	2.41	1,530
FM 2334GLT	1,258	703.08	55.90	0.285	37.6	40.3	2.38	970
CPS18703GLT	1,222	648.51	53.08	0.321	44.9	55.7	2.46	2,150
WU18XT9	1,188	634.29	53.38	0.299	41.9	25.5	2.03	920
FM 2498GLT	1,148	615.10	53.58	0.297	26.6	35.1	2.26	1,820
FM 2574GLT	1,136	609.81	53.68	0.323	61.9	44.1	2.24	3,030
FM 1621GL	1,136	622.60	54.83	0.298	43.4	43.9	2.43	1,250
NG 3956B3XF	1,126	600.16	53.30	0.296	44.2	61.0	2.44	650
AMX1823B3XF	1,086	580.12	53.43	0.282	44.8	55.2	2.50	1,160
FM 1830GLT	1,084	595.31	54.93	0.314	38.4	45.6	2.24	2,130
NG 4777B2XF	1,039	580.94	55.90	0.284	43.7	60.6	2.23	1,680
NG 4545B2XF	998	533.67	53.50	0.284	36.9	47.8	2.25	1,150
FM 2484B2F	994	545.85	54.90	0.304	31.7	33.2	2.27	6,060
DG 3615B3XF	979	502.26	51.33	0.291	37.1	52.3	2.73	2,250
DG 3555B3XF	971	522.05	53.75	0.302	40.5	59.9	2.83	1,850
DG 3421B3XF	968	520.78	53.80	0.301	64.8	50.7	2.19	1,130
CPS18506BB3XF	963	516.67	53.68	0.305	56.4	67.0	2.41	330
PHY 300W3FE	959	462.53	48.23	0.277	29.7	60.5	2.38	1,720
DG H929B3XF	887	467.58	52.73	0.305	57.2	55.1	2.11	2,320
DP 1840B3XF	883	482.87	54.70	0.311	64.5	60.8	2.50	1,500
DP 1646B2XF	874	478.95	54.80	0.275	47.6	57.2	2.67	1,410
CPS18450B2F	866	436.03	50.35	0.291	47.2	61.6	2.20	2,390
NG 2982B3XF	864	405.24	46.93	0.272	71.8	71.5	2.33	1,930
WU18XC9	860	472.12	54.93	0.313	35.5	54.9	2.13	2,310
DG H959B3XF	847	422.36	49.85	0.270	55.8	58.7	2.49	3,840
DP 1612B2XF	828	426.58	51.55	0.290	46.2	84.5	2.33	200
PX4A64W3FE	811	372.61	45.93	0.279	63.1	66.2	2.00	210
NG 5711B3XF	800	395.88	49.50	0.286	46.6	59.8	2.43	690
NG 4601B2XF	748	399.04	53.33	0.325	54.7	69.7	2.30	440
ST 5517GLTP	746	372.88	50.00	0.275	46.4	51.2	2.41	2,000
ST 5471GLTP	737	357.55	48.53	0.263	37.8	50.0	2.34	2,500
DP 1725B2XF	712	351.89	49.40	0.292	50.7	71.9	1.81	400
CPS18864GLTP	678	345.09	50.88	0.275	62.1	56.8	2.02	1,930
BX1972GLTP	668	326.41	48.90	0.280	78.1	70.7	2.06	5,980
CG 9178B3XF	633	307.08	48.55	0.290	57.5	86.2	2.10	400
CPS18502CB3XF	631	293.69	46.58	0.284	57.9	80.7	2.05	750
CPS18502AB3XF	620	283.77	45.75	0.281	68.8	83.7	2.17	1,460
PX4A69W3FE	585	250.09	42.75	0.255	87.4	74.3	2.30	50
DP 1835B3XF	560	274.96	49.10	0.297	77.1	79.6	2.25	1,030
MSD (0.05)	154	78.16	4.65	0.314	30.1	14.1	0.52	

[a]AMX are experimental lines for Americot; BX are experimental lines for BASF; CG is Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG=DynaGro; DP is Deltapine, FM is Fibermax; NG is NexGen, PHY is Phytogen; PX are experimental lines for Phytogen; ST is Stoneville; WU are experimental lines for Winfield.

Table 6. Fiber data from the Verticillium wilt trial at Ropesville.

Cultivar[a]	Mic	Length	Unif.	Stren.	Elong.	Rd	+b	Leaf	Color grade
AMX1823B3XF	3.38	29.90	82.60	1.18	7.60	76.7	7.1	4.0	41-1
BX1972GLTP	2.98	31.25	80.05	1.15	7.80	76.4	6.3	4.0	41-1,2
CPS18450B2F	3.32	31.35	81.70	1.13	7.30	74.1	6.3	3.0	41-2,51-1
CPS18502AB3XF	2.90	31.25	79.75	1.13	7.75	74.1	6.6	4.5	41-2,51-1
CPS18502CB3XF	2.72	31.45	80.60	1.15	8.20	75.9	6.5	4.0	41-2
CPS18506BB3XF	3.65	29.50	80.85	1.11	6.90	76.5	6.6	3.0	41-1,41-2
CPS18703GLT	3.60	30.55	80.40	1.15	6.40	76.1	6.4	3.5	41-2
CPS18864GLTP	3.16	30.65	79.95	1.13	6.35	77.0	6.8	3.0	41-1
CG 9178B3XF	2.96	32.35	80.50	1.13	6.60	73.6	7.3	3.0	41-2
DG 3421B3XF	3.42	29.25	80.60	1.11	8.40	78.8	7.2	3.5	31-1,41-1
DG 3555B3XF	3.40	32.45	82.70	1.20	7.80	74.8	6.3	4.5	41-2
DG 3615B3XF	3.19	31.35	80.45	1.13	7.90	76.5	7.1	4.0	41-1,41-2
DG H929B3XF	3.80	30.45	81.55	1.06	8.95	75.0	7.2	3.5	41-1
DG H959B3XF	2.98	32.35	80.65	1.18	7.80	76.5	7.0	3.0	41-2,31-2
DP 1612B2XF	3.57	30.95	81.35	1.13	8.15	74.4	6.6	3.5	41-2,51-1
DP 1646B2XF	3.96	30.35	81.40	1.20	7.40	77.9	5.9	4.0	41-2
DP 1725B2XF	2.98	30.85	80.15	1.15	6.90	76.3	6.4	2.5	41-1,41-2
DP 1835B3XF	2.96	30.10	79.00	1.14	6.85	75.7	6.8	3.5	41-1,41-2
DP 1840B3XF	3.93	30.95	81.70	1.16	7.45	75.8	7.3	2.0	41-1
FM 1621GL	3.54	32.60	82.15	1.16	6.15	76.7	7.0	4.5	41-1
FM 1830GLT	3.75	31.75	81.05	1.20	6.90	78.1	6.1	4.0	41-1
FM 1911GLT	3.92	31.45	81.50	1.16	6.85	77.4	6.5	3.5	41-1
FM 2334GLT	3.74	30.95	82.85	1.22	6.50	79.1	6.7	3.5	31-2,41-1
FM 2484B2F	3.66	31.95	81.65	1.17	5.65	77.4	6.5	3.5	41-1,41-2
FM 2498GLT	3.26	31.60	81.30	1.15	6.15	78.2	7.1	3.5	31-2,41-1
FM 2574GLT	3.40	32.05	81.45	1.21	6.30	77.6	6.7	3.5	41-1
NG 2982B3XF	2.97	32.70	81.95	1.10	6.75	74.0	6.2	5.5	41-2,51-1
NG 3956B3XF	3.66	30.15	81.95	1.15	7.30	76.0	6.9	3.5	41-1,41-2
NG 4545B2XF	3.42	31.80	81.05	1.13	6.05	76.8	7.5	2.0	31-2,41-1
NG 4601B2XF	3.82	31.90	80.55	1.13	7.50	76.6	6.3	3.5	41-1,41-2
NG 4777B2XF	3.80	33.00	81.65	1.15	5.70	76.2	7.8	2.5	31-2,41-1
NG 4792XF	3.87	31.55	81.70	1.10	7.95	75.2	8.4	3.0	31-1,41-3
NG 5711B3XF	3.25	31.05	80.40	1.16	7.40	77.9	6.9	2.5	41-1
PHY 300W3FE	2.96	29.95	80.00	1.09	7.00	75.5	7.5	3.5	41-1
PX4A64W3FE	2.70	31.40	80.90	1.09	7.75	76.5	7.2	3.5	31-2,41-2
PX4A69W3FE	2.45	29.40	79.00	1.09	7.50	76.7	7.2	4.0	41-1
ST 5471GLTP	2.78	30.15	78.85	1.12	7.70	79.1	6.8	2.5	31-2
ST 5517GLTP	3.02	30.80	79.30	1.13	7.60	77.2	6.5	3.0	41-1,41-2
WU18XC9	3.89	32.35	81.10	1.20	6.45	76.9	5.9	3.0	41-2
WU18XT9	3.59	30.25	81.50	1.15	7.50	76.6	6.9	3.0	41-1,41-2
MSD (0.05)	0.69	1.14	1.83	0.04	0.7	2.1	0.8		

[a]AMX are experimental lines for Americot; BX are experimental lines for BASF; CG is Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG is DynaGro; DP is Deltapine, FM is Fibermax; NG is NexGen, PHY is Phytogen; PX are experimental lines for Phytogen; ST is Stoneville; WU are experimental lines for Winfield.

[b]Micronaire (mic), uniformity (unif), strength (stren), and elongation (elon).

Table 7. Scaled[a] comparison across all three trials to the susceptible (**DP 1612B2XF**) and resistant (**FM 2484B2F**) varieties for lint yield, value ($/acre), defoliation and wilt incidence.

Cultivar[b]	Yield	rank	Y	Value	rank	V	Defol	rank	D	Wilt	rank	W
NG 4792XF	0.808	1	a	0.796	1	a	0.303	9	a	0.306	9	a
NG 3500XF	0.757	2	a	0.781	2	a	0.439	30	b	0.462	46	c
FM 2334GLT	0.712	3	a	0.728	3	a	0.314	11	a	0.301	6	a
NG 3640XF	0.706	4	a	0.722	4	a	0.336	15	a	0.349	18	b
FM 2498GLT	0.676	5	a	0.705	5	a	0.377	20	b	0.223	3	a
DP 1822XF	0.659	6	b	0.687	6	a	0.432	28	b	0.377	25	b
WU18XT9	0.650	7	b	0.624	8	b	0.150	1	a	0.349	19	b
AMX1823B3XF	0.646	8	b	0.596	10	b	0.473	33	b	0.313	12	a
FM 1911GLT	0.636	9	b	0.636	7	a	0.228	5	a	0.158	1	a
CPS18703GLT	0.627	10	b	0.604	9	b	0.478	34	b	0.347	17	a
NG 3956B3XF	0.598	11	b	0.576	13	b	0.564	44	b	0.304	8	a
FM 1888GL	0.588	12	b	0.581	12	b	0.287	7	a	0.385	30	b
FM 2484B2F	**0.559**	**13**	**b**	**0.530**	**17**	**b**	**0.221**	**3**	**a**	**0.206**	**2**	**a**
NG 3930B3XF	0.548	14	b	0.500	21	b	0.317	12	a	0.256	4	a
FM 1830GLT	0.539	15	b	0.537	16	b	0.335	14	a	0.313	11	a
NG 3517B2XF	0.529	16	b	0.554	14	b	0.598	49	b	0.379	26	b
FM 2574GLT	0.529	17	b	0.527	18	b	0.422	25	b	0.431	41	c
NG 4777B2XF	0.517	18	b	0.544	15	b	0.550	43	b	0.381	27	b
FM 2322GL	0.515	19	b	0.527	19	b	0.414	23	b	0.331	13	a
PHY 350W3FE	0.504	20	b	0.478	23	b	0.349	17	b	0.343	15	a
PHY 210W3FE	0.500	21	b	0.526	20	b	0.301	8	a	0.506	56	c
FM 2398GLTP	0.495	22	b	0.582	11	b	0.277	6	a	0.308	10	a
PHY 39W3FE	0.494	23	b	0.421	32	c	0.221	4	a	0.363	22	b
PX3C06W3FE	0.491	24	b	0.466	25	b	0.364	19	b	0.409	37	b
PHY 320W3FE	0.488	25	b	0.429	30	c	0.424	26	b	0.332	14	a
DP 1820B3XF	0.482	26	b	0.486	22	b	0.389	21	b	0.476	49	c
FM 1621GL	0.480	27	b	0.469	24	b	0.346	16	b	0.359	21	b
CPS18506BB3XF	0.473	28	b	0.461	26	b	0.577	46	b	0.472	47	c
DG 3615B3XF	0.463	29	b	0.425	31	bc	0.448	32	b	0.295	5	a
DG 3555B3XF	0.456	30	b	0.455	27	b	0.492	36	b	0.392	31	b
PHY 250W3FE	0.456	31	c	0.434	28	c	0.351	18	b	0.354	20	b
DG H929B3XF	0.451	32	c	0.415	34	c	0.510	37	b	0.472	48	c
WU18XC9	0.427	33	c	0.421	33	c	0.303	10	a	0.364	23	b
NG 4545B2XF	0.420	34	c	0.430	29	c	0.441	31	b	0.438	43	c
DP 1840B3XF	0.377	35	d	0.396	36	d	0.542	41	b	0.599	63	c
CPS18450B2F	0.372	36	d	0.373	39	d	0.621	53	b	0.411	38	b
CG 3527B2XF	0.366	37	d	0.375	38	d	0.491	35	b	0.375	24	b
NG 3780B2XF	0.364	38	d	0.366	41	d	0.688	59	b	0.383	28	b
DG H959B3XF	0.346	39	d	0.305	44	d	0.519	39	b	0.502	55	c
DG 3421B3XF	0.342	40	d	0.334	42	d	0.318	13	a	0.484	51	c
CG 3475B2XF	0.342	41	d	0.368	40	d	0.848	72	c	0.696	69	c
DP 1646B2XF	0.340	42	d	0.396	35	c	0.548	42	b	0.430	40	c
CG 3885B2XF	0.339	43	d	0.392	37	d	0.810	69	c	0.477	50	c
NG 2982B3XF	0.336	44	d	0.286	47	d	0.637	54	b	0.522	58	c
ST 5122GLT	0.325	45	d	0.298	45	d	0.690	60	c	0.492	53	c
PX3B07W3FE	0.325	46	d	0.295	46	d	0.614	51	b	0.429	39	c

Cultivar[b]	Yield	rank	Y	value	rank	V	Defol	rank	D	Wilt	rank	W
NG 4689B2XF	0.318	47	d	0.285	48	d	0.515	38	b	0.344	16	a
PX4A64W3FE	0.314	48	d	0.230	57	d	0.603	50	b	0.584	62	c
PX3B09W3FE	0.311	49	d	0.269	52	d	0.639	55	b	0.443	45	c
PHY 300W3FE	0.308	50	d	0.267	53	d	0.581	48	b	0.397	32	b
NG 5711B3XF	0.303	51	d	0.265	54	d	0.531	40	b	0.401	34	b
AMX1818B3XF	0.301	52	d	0.320	43	d	0.398	22	b	0.385	29	b
NG 3699B2XF	0.296	53	d	0.233	55	d	0.650	57	b	0.441	44	c
DP 1612B2XF	**0.282**	**54**	**d**	**0.274**	**49**	**d**	**0.846**	**71**	**c**	**0.564**	**61**	**c**
DP 1725B2XF	0.280	55	d	0.270	51	d	0.579	47	b	0.500	54	c
PHY 330W3FE	0.278	56	d	0.229	58	d	0.674	58	b	0.613	65	c
NG 4601B2XF	0.257	57	d	0.270	50	d	0.641	56	b	0.490	52	c
ST 5517GLTP	0.255	58	d	0.231	56	d	0.435	29	b	0.398	33	b
ST 5471GLTP	0.247	59	d	0.207	60	d	0.422	24	b	0.302	7	a
CPS18269GLTP	0.241	60	d	0.227	59	d	0.782	65	c	0.408	36	b
CPS18504DB3XF	0.197	61	d	0.185	62	d	0.201	2	a	0.702	70	c
CPS18864GLTP	0.196	62	d	0.197	61	d	0.426	27	b	0.520	57	c
PHY 340W3FE	0.180	63	d	0.141	65	e	0.695	62	b	0.561	60	c
BX1972GLTP	0.168	64	e	0.161	64	d	0.621	52	b	0.648	67	c
CG 9178B3XF	0.166	65	e	0.135	66	e	0.796	67	c	0.604	64	c
CPS18502CB3XF	0.152	66	e	0.111	67	e	0.764	64	c	0.526	59	c
CPS18502AB3XF	0.143	67	e	0.096	68	e	0.798	68	c	0.647	66	c
FM 1953GLTP	0.140	68	e	0.173	63	d	0.811	70	c	0.665	68	c
PX4A69W3FE	0.112	69	e	0.046	70	e	0.693	61	c	0.854	72	d
DP 1835B3XF	0.089	70	e	0.083	69	e	0.752	63	c	0.739	71	c

[a]Scaled comparisons means that each plot in each trial was scaled as follows: (observation – minimum observation for that site)/(maximum observation – minimum observation for that site). The letter following the rank for yield (Y), value ($)/acre [lint yield x loan value) (V), Defoliation (D) and Wilt (W), represents the statistical comparison between each cultivar and the two checks. For example, FM 2482B2F had a "b" ranking for yield and value, and an "a" ranking for defoliation and wilt. Cultivars that had an "a" ranking for yield and value, had significantly better yields and value (lint yield x loan value) than FM 2484B2F. DP 1612B2XF had a d ranking for yield and value and a c ranking for defoliation and wilt. Cultivars with a c ranking or higher had less wilt and defoliation than DP 1612B2XF. Cultivars with a lower ranking (for example e ranking for yield and value) had significantly poorer yield and value than DP 1612B2XF.

[b]AMX are experimental lines for Americot; BX are experimental lines for BASF; CG is Croplan Genetics; CPS are experimental lines for Dynagro/All-Tex Cotton; DG is DynaGro; DP is Deltapine, FM is Fibermax; NG is NexGen, PHY is Phytogen; PX are experimental lines for Phytogen; ST is Stoneville; WU are experimental lines for Winfield.