

# Verticillium wilt variety test results, 2013



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**Table 1A.** Effect of Verticillium wilt on varieties in Floydada.

Variety	Plants/ft	%Wilt on 8/29	%Defoliation	Lbs lint/a	Turn out	Yield x Loan (\$/a)	Loan (\$/lb)
FM 2484B2F	2.9	12	23	2170	0.3071	1241	0.5720
FM 2322GL	1.8	9	23	2149	0.344	1225	0.5700
FM 2989GLB2	2.5	18	29	2132	0.293	1221	0.5725
FM 9170B2F	2.6	12	29	2012	0.3021	1161	0.5773
FM 2011GT	2.6	19	38	2037	0.3118	1156	0.5678
CT 13545B2RF	2.7	19	24	1979	0.2983	1143	0.5773
NGX 3306	2.9	23	45	1997	0.2968	1126	0.5640
DP 1219B2RF	2.6	12	22	1945	0.2998	1122	0.5770
FM 9180B2F	2.7	21	28	1951	0.2846	1114	0.5710
ST 4747GLB2	2.6	14	34	2054	0.2946	1107	0.5390
FM 1944GLB2	2.6	22	41	1872	0.2937	1073	0.5733
PHY 4433-27	2.5	34	72	1409	0.2675	1063	0.4893
AT Nitro-44B2RF	2.8	21	22	1928	0.2989	1052	0.5455
DP 1212B2RF	3.1	19	68	1948	0.2932	1045	0.5363
PHY 499WRF	2.7	36	63	1902	0.2989	1037	0.5453
NG 4111RF	2.6	16	35	1795	0.2972	1031	0.5745
DP 0912B2RF	2.9	16	58	1781	0.3038	1001	0.5618
FM 9250GL	2.8	14	39	1834	0.2876	996	0.5433
NG 1511B2RF	2.5	23	53	1816	0.3008	990	0.5450
FM 1320GL	2.2	18	60	1717	0.3049	962	0.5603
CG 3428B2RF	2.4	22	56	1649	0.3151	950	0.5758
AT EdgeB2RF	3.1	24	53	1825	0.2762	948	0.5195
PHY 4433-25	2.8	23	64	1708	0.2944	944	0.5193
NG 3348B2RF	2.2	13	28	1719	0.2816	915	0.5323
NGX 2322B2RF	2.6	18	40	1599	0.2807	912	0.5705
PHY 3080-1	2.6	25	48	1696	0.2911	887	0.5568
NG 2051B2RF	2.7	21	39	1623	0.2542	870	0.5358
AM 1532B2RF	2.7	24	54	1591	0.2749	869	0.5460
CG 3156B2RF	2.7	35	62	1667	0.2955	864	0.5185
CT 13363B2RF	2.7	33	54	1558	0.2758	863	0.5540
AM 1504B2RF	2.1	25	44	1440	0.2668	806	0.5600
PHY 339WRF	2.9	13	34	1848	0.314	690	0.5753
MSD <sub>(0.05)</sub>	0.4	13	15	199	0.021	104	0.025

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 1B.** Effect of Verticillium wilt on fiber properties of varieties in Floydada.

Variety	Micro- naire	Length	Unif- ormity	Strength	Elong- ation	Rd	+b	Leaf
AM 1504B2RF	3.70	1.115	82.90	29.25	10.35	79.85	8.35	2.5
AM 1532B2RF	3.55	1.175	81.40	29.90	9.40	78.10	7.85	2.5
AT EdgeB2RF	3.50	1.175	81.20	32.50	9.00	75.95	7.05	4.0
AT Nitro-44B2RF	3.80	1.235	81.95	34.20	9.25	76.90	7.60	4.0
CG 3156B2RF	3.65	1.075	79.30	27.20	8.60	78.90	7.60	3.0
CG 3428B2RF	4.35	1.180	81.90	29.20	9.95	79.45	8.50	2.0
CT 13363B2RF	3.40	1.195	82.90	32.40	9.55	77.25	7.75	2.5
CT 13545B2RF	3.80	1.170	81.25	33.00	9.10	79.70	8.30	2.0
DP 0912B2RF	4.05	1.110	81.80	31.50	9.55	78.65	8.00	3.0
DP 1212B2RF	3.95	1.190	82.85	31.30	9.85	76.10	8.15	4.5
DP 1219B2RF	4.25	1.155	80.50	31.75	8.95	78.25	8.40	1.5
FM 1320GL	3.85	1.115	80.95	30.95	10.00	78.55	7.75	3.0
FM 1944GLB2	4.00	1.175	81.10	30.35	7.80	79.40	7.55	2.0
FM 2011GT	3.75	1.140	81.40	29.60	8.70	78.40	7.40	2.5
FM 2322GL	4.45	1.170	81.46	30.95	7.50	77.05	7.80	2.5
FM 2484B2F	3.75	1.230	82.55	31.35	8.20	80.10	7.25	2.5
FM 2989GLB2	3.70	1.160	80.85	30.55	7.60	79.90	7.55	2.5
FM 9170B2F	3.70	1.210	81.45	31.20	8.05	81.00	7.50	1.5
FM 9180B2F	3.95	1.195	82.20	30.40	8.80	78.50	7.40	2.5
FM 9250GL	3.50	1.210	82.30	31.40	7.35	77.70	7.30	3.5
NG 1511B2RF	3.95	1.140	81.05	31.50	10.25	75.85	7.90	4.0
NG 2051B2RF	3.90	1.110	79.90	27.85	8.45	75.55	7.25	3.5
NG 3348B2RF	3.65	1.160	82.35	31.50	8.85	75.45	7.95	3.5
NG 4111RF	4.00	1.155	82.05	33.00	9.30	77.10	8.60	1.5
NGX 2322B2RF	3.90	1.160	82.15	30.45	8.90	77.75	7.95	2.5
NGX 3306	3.70	1.210	83.35	32.25	10.25	78.95	8.40	3.0
PHY 3080-1	4.15	1.135	82.50	30.00	11.10	75.65	8.15	3.5
PHY 339WRF	3.95	1.185	82.95	32.60	9.60	80.05	7.85	2.0
PHY 4433-25	3.10	1.145	81.45	31.20	10.25	78.15	7.85	3.5
PHY 4433-27	2.95	1.120	81.50	31.10	9.75	77.25	7.65	3.0
PHY 499WRF	4.10	1.140	82.35	32.00	10.15	76.00	7.95	4.0
ST 1347GLB2	3.75	1.205	81.20	29.35	7.65	77.05	6.60	3.5
MSD <sub>(0.05)</sub>	0.63	0.043	1.84	1.38	0.71	2.42	0.39	1.9

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 2A.** Effect of Verticillium wilt on varieties at Garden City.

Variety	Plants/ft	%Wilt on 8/28	%Defoliation	Lbs lint/a	Turnout	Yield x Loan (\$/a)	Loan (\$/lb)
BX 1445GLB2	2.7	28	23	2294	0.298	1251	0.5455
FM 2484B2F	2.9	17	18	2105	0.273	1149	0.5458
FM 9170B2F	2.8	17	24	2051	0.286	1110	0.5410
NG 4012B2RF	2.8	24	30	1828	0.280	1015	0.5555
FM 9180B2F	2.8	28	31	1888	0.260	1014	0.5370
DP 1311B2RF	2.0	32	29	1908	0.296	1008	0.5280
FM 2989GLB2	2.8	15	17	1904	0.265	993	0.5213
DP 1321B2RF	2.8	37	58	1820	0.296	991	0.5445
FM 1944GLB2	2.6	23	18	1811	0.265	988	0.5455
ST 4747GLB2	2.6	22	32	1938	0.271	972	0.5015
NG 4010B2RF	2.5	32	34	1733	0.244	940	0.5428
PHY 3080-1	2.7	35	52	1692	0.270	910	0.5380
CG 3787B2RF	2.6	36	48	1666	0.281	907	0.5443
ST 4946GLB2	2.7	31	50	1784	0.275	899	0.5040
FM 2322GL	1.8	13	11	1646	0.297	897	0.5450
AM 1532B2RF	2.7	34	46	1583	0.259	893	0.5640
DP 1219B2RF	2.4	26	20	1689	0.267	885	0.5238
CG 3428B2RF	2.4	36	46	1670	0.274	884	0.5290
NG 2051B2RF	2.9	21	29	1609	0.248	859	0.5340
NG 5315B2RF	2.1	39	36	1598	0.283	857	0.5363
DP 1252B2RF	2.1	42	40	1564	0.284	851	0.5445
AT Nitro-44B2RF	2.8	23	25	1711	0.263	850	0.4968
PHY 375WRF	2.8	25	53	1629	0.268	843	0.5178
PHY 565WRF	2.6	25	31	1619	0.255	839	0.5183
DP 0912B2RF	2.0	42	50	1581	0.274	832	0.5263
PHY 499WRF	3.1	31	44	1634	0.269	830	0.5080
PHY 4433-25	2.6	31	46	1663	0.274	795	0.4778
DP 1359B2RF	2.8	29	37	1586	0.258	765	0.4828
CT 13125B2RF	2.8	32	71	1456	0.268	743	0.5100
ST 6448GLB2	2.5	36	38	1481	0.261	740	0.4995
CT 13513RF	2.1	46	60	1294	0.248	678	0.5238
AM 1504B2RF	2.0	45	41	1244	0.241	653	0.5253
MSD <sub>(0.05)</sub>	0.4	12	11	132	0.018	70	NS

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phylogen, ST = Stoneville.

**Table 2B.** Effect of Verticillium wilt on fiber properties of varieties in Garden City.

Variety	Micro- naire	Length	Unif- ormity	Strength	Elong- ation	Rd	+b	Leaf
AM 1504B2RF	3.30	1.115	82.05	29.70	9.55	78.00	7.55	2.50
AM 1532B2RF	3.55	1.155	81.40	29.20	9.00	78.20	7.40	2.00
AT Nitro-44B2RF	3.10	1.265	82.10	33.05	9.00	76.25	6.75	4.00
BX 1445GLB2	3.70	1.245	82.85	32.20	7.90	78.65	6.50	2.00
CG 3428B2RF	3.30	1.195	81.70	30.00	10.20	78.30	7.25	2.50
CG 3787B2RF	3.30	1.145	81.80	29.15	10.50	78.35	7.35	2.00
CT 13125B2RF	2.95	1.180	81.25	30.70	10.10	77.15	7.30	2.50
CT 13513RF	3.30	1.165	80.05	29.65	9.20	76.50	7.10	2.50
DP 0912B2RF	3.50	1.125	82.00	30.90	9.15	76.05	7.40	2.50
DP 1219B2RF	3.00	1.185	79.95	31.05	8.65	79.35	7.25	2.00
DP 1252B2RF	3.25	1.165	81.60	29.10	10.30	80.30	7.30	1.50
DP 1311B2RF	3.60	1.135	80.70	28.90	11.15	78.30	6.65	3.50
DP 1321B2RF	3.80	1.160	81.95	31.55	10.70	75.20	7.15	3.00
DP 1359B2RF	2.70	1.195	79.70	31.10	8.25	79.25	7.50	1.50
FM 1944GLB2	3.30	1.200	81.95	32.25	7.85	80.65	6.70	2.50
FM 2322GL	3.80	1.220	82.00	32.35	7.15	76.45	7.60	2.00
FM 2484B2F	3.25	1.260	82.35	32.40	7.40	80.55	6.55	2.50
FM 2989GLB2	3.35	1.195	80.55	31.25	7.75	79.45	6.65	3.50
FM 9170B2F	3.40	1.210	81.15	30.50	8.00	79.35	6.60	1.50
FM 9180B2F	3.65	1.215	82.80	31.75	8.05	78.10	6.50	3.00
NG 2051B2RF	3.95	1.150	79.25	27.50	8.55	76.65	6.85	3.50
NG 4010B2RF	3.45	1.190	81.95	32.20	9.20	76.85	7.80	1.50
NG 4012B2RF	3.50	1.165	81.10	31.60	7.85	78.05	7.65	2.00
NG 5315B2RF	3.45	1.145	81.75	29.35	10.40	78.05	7.15	2.00
PHY 3080-1	3.80	1.155	82.20	30.70	10.25	77.25	7.20	4.00
PHY 375WRF	3.10	1.155	81.35	30.35	8.70	77.55	7.25	1.50
PHY 4433-25	2.75	1.135	81.10	30.95	9.70	76.60	7.25	3.00
PHY 499WRF	3.35	1.165	82.30	31.65	9.70	76.75	7.40	4.00
PHY 565WRF	3.30	1.160	82.10	32.05	9.65	76.65	7.50	2.05
ST 4747GLB2	3.45	1.200	80.90	29.85	7.15	78.30	6.30	5.00
ST 4946GLB2	3.20	1.190	82.45	33.00	9.45	78.40	7.45	4.00
ST 6448GLB2	3.20	1.215	80.70	28.95	7.40	77.50	6.80	3.00
MSD <sub>(0.05)</sub>	0.56	0.0325	1.47	1.44	0.76	4.45	0.41	2.66

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 3A.** Effect of Verticillium wilt on variety in Halfway.

Variety	Plants/ft	%Wilt on 8/24	%Defoliation	Lbs lint/a	Turnout	Yield x Loan (\$/a)	Loan (\$/lb)
FM 2484B2F	2.99	19	30	1752	0.395	936	0.534
ST 4747GLB2	2.49	21	32	1547	0.384	822	0.532
FM 2011GT	2.64	26	36	1445	0.370	792	0.548
FM 2322GL	1.94	16	22	1404	0.421	786	0.560
PHY 339WRF	2.63	40	25	1320	0.379	739	0.560
FM 9180B2F	2.74	30	34	1321	0.338	735	0.557
FM 2989GLB2	2.71	21	39	1372	0.362	733	0.534
NG 4111RF	2.47	28	40	1296	0.369	713	0.551
PHY 367WRF	2.94	36	52	1222	0.377	682	0.558
DP 1212B2RF	2.92	39	65	1204	0.358	670	0.557
DP 1321B2RF	2.97	29	60	1212	0.372	667	0.551
FM 1944GLB2	2.15	24	31	1175	0.372	665	0.566
DP 1219B2RF	2.44	26	33	1157	0.377	649	0.561
FM 9250GL	2.65	15	36	1218	0.356	644	0.529
DP 1311B2RF	2.74	19	25	1173	0.397	643	0.548
DP 0912B2RF	2.18	36	45	1188	0.379	639	0.538
NG 1511B2RF	2.44	27	51	1180	0.391	636	0.539
NG 3348B2RF	2.44	23	36	1193	0.357	630	0.529
PHY 3080-1	2.59	30	38	1173	0.364	617	0.526
AM 1532B2RF	2.34	30	41	1101	0.356	610	0.554
NG 4010B2RF	2.39	31	45	1069	0.347	605	0.566
NG 2051B2RF	2.76	29	47	1098	0.317	595	0.543
CT 13545B2RF	2.93	36	46	1099	0.369	591	0.538
FM 1320GL	1.72	21	35	1069	0.372	590	0.552
CG 3156B2RF	2.75	40	61	1196	0.374	585	0.489
NGX 2322B2F	2.49	26	40	1061	0.354	579	0.546
PHY 4433-27	2.49	33	62	1137	0.352	570	0.502
CT 13125B2RF	2.45	40	64	1129	0.364	567	0.502
CT 13363B2RF	2.02	42	48	1018	0.373	566	0.557
CT 13663	2.76	45	54	1080	0.340	548	0.507
AT EdgeB2RF	2.74	41	58	1119	0.330	537	0.480
AM 1504B2RF	1.75	37	34	925	0.342	473	0.511
MSD <sub>(0.05)</sub>	0.40	17	9	217	0.023	115	0.048

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 3B.** Effect of Verticillium wilt on fiber properties of varieties in Halfway.

Variety	Micro- naire	Length	Unif- ormity	Strength	Elong- ation	Rd	+b	Leaf
AM 1504B2RF	3.37	1.06	80.05	27.60	8.55	78.55	8.20	2.5
AM 1532B2RF	3.40	1.11	81.30	28.25	8.60	78.65	8.50	1.5
AT EdgeB2RF	3.27	1.09	80.30	29.15	7.45	76.20	7.35	5.0
CG 3156B2RF	3.24	1.06	80.05	28.25	7.55	78.40	7.55	4.0
CT 13125B2RF	2.82	1.11	80.50	30.10	8.90	78.90	8.15	2.5
CT 13363B2RF	3.31	1.18	81.40	31.60	8.45	79.45	7.95	2.5
CT 13545B2RF	3.20	1.12	80.60	32.65	7.55	80.00	8.35	2.0
CT 13663	3.33	1.07	80.65	29.60	8.95	77.30	7.95	4.0
DP 0912B2RF	3.98	1.06	81.20	29.30	8.40	77.55	8.30	2.5
DP 1212B2RF	3.54	1.12	81.20	31.15	9.55	77.10	8.10	3.0
DP 1219B2RF	3.45	1.12	80.70	31.20	7.45	80.45	8.45	1.0
DP 1311B2RF	3.85	1.07	81.60	28.80	8.85	78.65	7.80	2.0
DP 1321B2RF	3.55	1.08	82.10	31.10	9.60	76.75	8.30	2.5
FM 1320GL	3.60	1.09	81.55	30.70	8.35	78.75	8.30	2.0
FM 1944GLB2	3.64	1.14	80.65	30.55	6.70	81.70	7.40	1.5
FM 2011GT	3.39	1.12	81.65	30.50	7.35	78.00	7.45	3.0
FM 2322GL	3.85	1.15	80.90	29.95	6.65	79.00	7.65	2.5
FM 2484B2F	3.45	1.21	81.70	31.95	6.90	80.10	7.35	3.5
FM 2989GLB2	3.48	1.09	80.55	29.90	7.20	79.00	7.90	2.5
FM 9180B2F	3.44	1.16	81.45	31.70	7.45	80.15	7.60	2.5
FM 9250GL	3.31	1.12	80.40	29.70	7.10	78.85	7.50	3.5
NG 1511B2RF	3.65	1.07	81.60	30.80	9.55	77.35	8.55	2.5
NG 2051B2RF	3.44	1.10	80.35	28.75	7.25	78.25	7.60	3.5
NG 3348B2RF	3.28	1.13	81.90	31.25	7.90	78.00	7.90	3.0
NG 4010B2RF	3.59	1.11	81.80	31.45	8.00	78.20	8.50	2.0
NG 4111RF	3.53	1.09	81.80	32.60	8.65	77.35	8.70	2.5
NGX 2322B2F	3.32	1.13	81.20	30.15	7.60	78.45	8.20	2.0
PHY 3080-1	3.37	1.10	81.40	29.75	8.50	77.30	8.65	3.5
PHY 339WRF	3.50	1.15	82.05	32.00	8.65	79.30	7.65	2.5
PHY 367WRF	3.57	1.12	82.95	31.95	9.10	75.85	8.10	2.5
PHY 4433-27	3.02	1.11	81.25	30.55	8.10	78.25	7.90	4.0
ST 1347GLB2	3.70	1.12	79.80	27.90	6.50	76.55	7.15	3.5
MSD <sub>(0.05)</sub>	0.33	0.035	1.97	2.16	0.54	1.7	0.42	1.83

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 4A.** Effect of Verticillium wilt on variety in Plainview.

Variety	Plants/ft	%Wilt on 7/31	%Defoliation	Lbs lint/a	Turnout	Yield x Loan (\$/a)	Loan (\$/lb)
NG 4111RF	2.7	37	48	1965	0.287	1111	0.5658
FM 2484B2F	3.2	23	30	1910	0.278	1025	0.5370
FM 2322GL	1.7	38	30	1746	0.317	1016	0.5820
FM 2011GT	2.9	27	50	1774	0.298	984	0.5545
ST 4747GLB2	2.6	34	46	1884	0.297	979	0.5195
DP 1321B2RF	3.4	27	73	1675	0.299	909	0.5430
FM 9180B2F	3.1	34	42	1632	0.259	904	0.5543
NGX 3306	3.5	36	47	1594	0.288	897	0.5628
PHY 339WRF	3.3	33	42	1623	0.279	877	0.5400
FM 1320GL	1.6	49	57	1512	0.295	873	0.5775
AT Nitro-44B2RF	3.1	31	40	1692	0.263	847	0.5008
FM 9250GL	2.7	31	57	1512	0.273	825	0.5458
PHY 3080-1	2.4	32	55	1457	0.281	820	0.5630
NG 1511B2RF	2.8	37	63	1415	0.295	803	0.5675
DP 1044B2RF	3.2	32	36	1590	0.258	800	0.5035
FM 2989GLB2	2.8	37	41	1470	0.260	791	0.5383
NG 3348B2RF	2.3	28	35	1472	0.251	785	0.5335
PHY 4433-27	2.6	38	64	1473	0.277	784	0.5325
FM 1944GLB2	2.7	36	45	1501	0.249	772	0.5143
DP 1219B2RF	2.7	33	38	1526	0.261	767	0.5025
DP 1311B2RF	1.8	54	36	1465	0.263	764	0.5215
PHY 367WRF	2.9	35	68	1432	0.267	748	0.5225
DP 0912B2RF	2.5	35	60	1340	0.275	715	0.5335
NG 2051B2RF	2.9	37	51	1293	0.238	703	0.5435
CT 13883	2.9	36	57	1332	0.254	684	0.5133
CG 3156B2RF	3.1	40	67	1272	0.281	674	0.5300
PHY 375WRF	3.0	31	76	1259	0.261	651	0.5173
CT 13125B2RF	2.9	33	74	1196	0.276	609	0.5093
AM 1532B2RF	2.6	41	53	1109	0.245	591	0.5328
AM 1504B2RF	1.8	45	47	1076	0.246	543	0.5047
CG 3428B2RF	1.4	54	54	977	0.251	506	0.5178
CT 13513RF	2.1	55	67	932	0.251	499	0.5350
MSD <sub>(0.05)</sub>	0.3	14	13	137	0.023	73	0.0600

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phylogen, ST = Stoneville.



**Table 4B.** Effect of Verticillium wilt on fiber properties of varieties in Plainview.

Variety	Micro- naire	Length	Unif- ormity	Strength	Elong- ation	Rd	+b	Leaf
AM 1504B2RF	3.10	1.120	81.15	28.45	9.45	79.00	7.80	2.5
AM 1532B2RF	3.10	1.155	80.90	29.35	9.00	78.80	7.70	2.5
AT Nitro-44B2RF	3.10	1.260	82.95	32.90	9.20	77.55	7.00	4.5
CG 3156B2RF	3.00	1.130	80.40	29.30	8.60	80.10	6.80	3.0
CG 3428B2RF	2.85	1.170	81.70	29.65	9.20	80.85	7.85	2.0
CT 13125B2RF	2.95	1.165	81.20	31.25	10.20	79.35	7.80	2.0
CT 13513RF	3.30	1.135	80.10	30.10	9.00	79.10	7.75	2.5
CT 13883	2.95	1.105	80.75	28.50	8.55	78.45	7.55	2.5
DP 0912B2RF	3.35	1.130	81.75	31.10	9.45	77.40	7.75	3.5
DP 1044B2RF	2.85	1.155	80.25	31.10	10.40	78.75	8.00	3.0
DP 1219B2RF	2.85	1.190	80.25	31.80	8.35	81.65	7.75	3.0
DP 1311B2RF	3.10	1.135	80.35	28.65	10.05	80.10	7.15	3.5
DP 1321B2RF	3.70	1.146	82.56	32.35	10.55	76.90	7.85	4.0
FM 1320GL	3.85	1.170	80.95	31.10	8.75	79.60	8.10	1.0
FM 1944GLB2	3.10	1.215	81.20	30.85	7.60	80.95	6.95	3.0
FM 2011GT	3.30	1.190	82.70	31.55	7.80	80.45	7.00	2.5
FM 2322GL	3.90	1.200	81.90	31.10	7.10	80.00	8.00	1.0
FM 2484B2F	3.25	1.265	81.75	31.65	7.80	81.70	7.20	3.0
FM 2989GLB2	3.15	1.170	81.40	30.25	7.20	80.85	7.45	2.0
FM 9180B2F	3.45	1.190	82.10	31.70	8.70	80.40	6.85	3.0
FM 9250GL	3.30	1.200	82.35	32.35	6.70	80.55	7.30	2.5
NG 1511B2RF	3.70	1.160	82.30	31.40	10.60	77.00	7.90	3.0
NG 2051B2RF	3.50	1.110	79.85	28.20	7.85	79.10	7.15	4.0
NG 3348B2RF	3.35	1.170	83.25	31.15	8.80	77.70	7.70	3.5
NG 4111RF	3.50	1.180	82.75	33.75	9.05	78.40	8.45	1.0
NGX 3306	3.45	1.205	82.80	32.65	9.25	78.90	8.15	2.5
PHY 3080-1	3.60	1.140	82.05	30.15	10.25	78.95	7.85	2.0
PHY 339WRF	3.20	1.205	82.70	31.65	9.10	80.05	7.75	2.0
PHY 367WRF	3.00	1.160	81.20	31.45	9.85	78.10	8.30	2.5
PHY 375WRF	2.90	1.150	81.40	29.55	8.30	78.50	7.65	3.0
PHY 4433-27	3.15	1.145	81.50	31.55	9.50	78.00	7.65	3.0
ST 1347GLB2	3.40	1.190	80.45	28.60	7.10	77.60	6.65	3.5
MSD <sub>(0.05)</sub>	0.39	0.027	1.32	1.74	0.51	2.65	0.34	2.7

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT= experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 5A.** Effect of Verticillium wilt on variety in Ropesville.

Variety	Plants /ft	% Wilt on 8/26	%Defoliation	Lbs lint/a	Turn out	Yield x Loan (\$/a)	Loan (\$/lb)	RK/ 500 cc soil**
FM 2484B2F	3.0	49	38	1464	0.292	786	0.5373	21,030 a
NG 4111RF	2.6	54	39	1349	0.279	736	0.5458	4,650 a-d
DP 1311B2RF	2.0	56	34	1401	0.286	722	0.5153	1,885 a-d
BX 1445GLB2	2.4	68	47	1336	0.305	707	0.5290	18,450 ab
FM 9180B2F	2.9	61	43	1343	0.277	700	0.5210	1,680 a-d
FM 2989GLB2	2.7	52	54	1224	0.278	604	0.4935	4,620 a-d
FM 9250GL	2.9	46	55	1196	0.260	574	0.4803	9,720 ab
NG 4012B2RF	2.7	53	51	1116	0.272	571	0.5123	3,960 abc
FM 1320GL	1.5	64	54	1156	0.278	544	0.4708	3,210 cd
DP 1044B2RF	2.9	45	35	1193	0.251	543	0.4550	9,600 abc
FM 2011GT	3.1	47	63	1174	0.270	542	0.4613	1,530 a-d
NG 2051B2RF	3.0	52	45	1157	0.244	538	0.4645	7,440 abc
NG 3348B2RF	2.4	56	39	1138	0.263	534	0.4688	7,020 abc
DP 0912B2RF	2.8	60	60	1098	0.272	530	0.4833	795 a-d
NGX 2322B2RF	2.8	61	40	1050	0.247	523	0.4980	18,510 abc
DP 1212B2RF	3.2	58	71	1105	0.278	519	0.4698	6,775 a-d
ST 6448GLB2	2.4	64	48	1026	0.281	502	0.4893	13,380 abc
NG 1511B2RF	2.5	63	68	972	0.298	480	0.4943	3,270 a-d
PHY 499WRF	3.0	57	60	1021	0.272	477	0.4670	15,390 abc
ST 4946GLB2	2.6	58	58	1016	0.268	466	0.4585	480 d
PHY 565WRF	2.4	57	52	998	0.274	461	0.4623	1,650 a-d
PHY 4433-25	2.8	53	55	1006	0.266	451	0.4488	130 b-d
DP 1219B2RF	2.3	55	45	941	0.264	444	0.4715	10,170 abc
NG 5315B2RF	1.6	70	60	836	0.274	430	0.5145	770 a-d
AM 1504B2RF	1.9	66	52	877	0.248	425	0.4850	5,750 abc
CT 13663	2.8	63	63	924	0.256	423	0.4583	5,340 abc
CT 13883	2.8	59	52	921	0.244	417	0.4533	4,410 abc
DP 1359B2RF	2.9	46	53	855	0.259	405	0.4740	9,395 abc
CG 3787B2RF	2.5	68	64	815	0.258	393	0.4825	1,950 a-d
PHY 367WRF	2.9	46	66	862	0.237	387	0.4490	3,600 a-d
DP 1252B2RF	1.9	80	56	741	0.258	373	0.5030	4,800 a-d
CT 13513RF	1.9	68	71	593	0.248	275	0.4648	9,630 abc
MSD <sub>(0.05)</sub>	0.3	16	11.6	152	0.027	74	0.0487	LOG <sub>10</sub> (RK)

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

\*\*Mean separation based on Log10 transformation of root-knot nematode (RK) density.

**Table 5B.** Effect of Verticillium wilt on fiber properties of varieties in Ropesville.

Variety	Micro- naire	Length	Unif- ormity	Strength	Elong- ation	Rd	+b	Leaf
AM 1504B2RF	2.68	1.085	81.35	27.80	9.00	79.40	8.25	2.5
BX 1445GLB2	3.23	1.215	83.00	31.40	7.75	79.55	7.45	1.5
CG 3787B2RF	2.83	1.105	80.75	28.55	9.85	77.15	8.15	4.0
CT 13513RF	2.66	1.115	79.25	29.20	8.25	77.60	8.25	3.0
CT 13663	2.63	1.160	81.95	30.90	9.20	76.30	7.75	4.5
CT 13883	2.71	1.130	80.00	28.25	8.20	76.35	7.75	4.5
DP 0912B2RF	2.91	1.110	81.45	31.10	8.70	77.10	8.30	4.0
DP 1044B2RF	2.52	1.140	81.00	31.15	9.80	77.40	8.05	4.5
DP 1212B2RF	3.07	1.160	82.55	32.50	10.05	73.40	7.75	5.0
DP 1219B2RF	2.64	1.185	80.50	30.20	8.75	79.50	8.15	3.5
DP 1252B2RF	2.82	1.135	79.95	27.70	8.25	79.15	8.45	3.0
DP 1311B2RF	3.27	1.120	81.15	29.05	9.90	77.15	7.35	4.0
DP 1359B2RF	2.45	1.160	80.20	29.85	8.40	77.65	8.40	2.0
FM 1320GL	2.98	1.150	81.30	30.95	9.35	76.70	8.00	4.0
FM 2011GT	2.55	1.155	81.00	31.35	7.85	77.95	7.75	3.5
FM 2484B2F	3.10	1.250	82.35	31.45	7.60	80.55	7.25	2.5
FM 2989GLB2	2.83	1.165	81.80	30.65	7.35	79.05	7.45	3.5
FM 9180B2F	3.13	1.185	81.70	31.45	8.00	78.45	7.50	3.0
FM 9250GL	2.71	1.185	81.20	31.20	7.15	77.40	7.50	3.0
NG 1511B2RF	3.04	1.120	80.95	30.30	9.95	76.30	8.00	4.0
NG 2051B2RF	3.00	1.130	79.90	28.55	7.80	75.85	7.25	5.0
NG 3348B2RF	2.82	1.180	82.45	31.55	8.60	76.60	7.85	4.0
NG 4012B2RF	2.85	1.150	81.70	32.45	7.20	78.05	8.15	2.0
NG 4111RF	3.17	1.135	82.10	31.10	9.45	77.65	9.05	2.0
NG 5315B2RF	2.88	1.115	81.50	28.30	9.85	79.70	8.40	1.5
NGX 2322B2RF	2.65	1.185	81.45	30.85	8.30	79.15	7.85	2.5
PHY 367WRF	2.36	1.155	81.10	31.65	8.95	76.20	8.30	4.0
PHY 4433-25	2.52	1.110	80.00	28.40	9.75	77.30	8.15	4.0
PHY 499WRF	2.93	1.160	82.85	31.20	9.25	75.85	7.80	4.5
PHY 565WRF	2.78	1.170	82.35	32.15	9.95	75.40	8.20	4.0
ST 4946GLB2	2.55	1.155	80.95	32.15	9.05	76.85	7.95	4.0
ST 6448GLB2	2.70	1.165	80.56	29.20	7.80	79.70	7.90	3.0
MSD <sub>(0.05)</sub>	0.30	0.032	1.43	1.39	1.26	3.76	0.46	1.7

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

**Table 6.** Relative\*\* wilt, defoliation, and yield of all varieties tested, analyzed over all sites.

Variety*	RelWilt	Rank Wilt	RelDef	Rank Defol.	Relyield	Rank Yield	RelValue	Rank Value
FM 2484B2F	0.428	3	0.390	2	0.978	1	0.968	1
BX 1445GLB2	0.708	34	0.499	12	0.959	2	0.968	2
NG 4111RF	0.597	16	0.538	16	0.874	4	0.885	3
FM 9170B2F	0.401	1	0.438	6	0.871	5	0.868	4
FM 2322GL	0.409	2	0.325	1	0.847	7	0.853	5
ST 4747GLB2	0.503	5	0.531	14	0.905	3	0.846	6
FM 2011GT	0.536	9	0.631	25	0.869	6	0.840	7
FM 9180B2F	0.647	23	0.496	10	0.845	8	0.839	8
NGX 3306	0.671	28	0.618	23	0.832	10	0.824	9
FM 2989GLB2	0.525	7	0.505	13	0.836	9	0.808	10
PHY 339WRF	0.628	20	0.462	9	0.809	13	0.800	11
DP 1311B2RF	0.680	30	0.423	4	0.819	12	0.794	12
NG 4012B2RF	0.572	13	0.572	18	0.782	17	0.787	13
DP 1321B2RF	0.637	22	0.920	48	0.799	15	0.785	14
FM 1944GLB2	0.592	15	0.499	11	0.769	19	0.753	15
CT 13545B2RF	0.697	33	0.536	15	0.765	20	0.753	16
FM 9250GL	0.469	4	0.625	24	0.784	16	0.743	17
DP 1212B2RF	0.713	36	0.954	50	0.781	18	0.739	18
AT Nitro-44B2RF	0.565	12	0.425	5	0.807	14	0.738	19
DP 1044B2RF	0.525	8	0.414	3	0.820	11	0.734	20
FM 1320GL	0.659	25	0.688	31	0.742	23	0.723	21
DP 1219B2RF	0.552	10	0.441	7	0.742	22	0.712	22
PHY 3080-1	0.684	31	0.697	32	0.730	27	0.710	23
NG 4010B2RF	0.696	32	0.635	26	0.711	30	0.709	24
NG 1511B2RF	0.665	26	0.797	41	0.725	28	0.705	25
NG 3348B2RF	0.517	6	0.458	8	0.752	21	0.701	26
DP 0912B2RF	0.710	35	0.765	36	0.724	29	0.694	27
PHY 499WRF	0.807	43	0.793	40	0.736	25	0.685	28
ST 4946GLB2	0.679	29	0.767	37	0.738	24	0.674	29
PHY 375WRF	0.632	21	0.874	45	0.703	33	0.674	30
NGX 2322B2RF	0.611	19	0.551	17	0.687	36	0.672	31
NG 2051B2RF	0.602	17	0.595	20	0.705	32	0.668	32
PHY 565WRF	0.608	18	0.591	19	0.696	35	0.647	33
AT EdgeB2RF	0.819	44	0.820	43	0.735	26	0.645	34
AM 1532B2RF	0.719	37	0.705	33	0.651	42	0.638	35
NG 5315B2RF	0.843	46	0.681	30	0.636	48	0.634	36
ST 6448GLB2	0.765	39	0.603	21	0.676	38	0.633	37
CG 3156B2RF	0.873	48	0.882	46	0.698	34	0.631	38
CG 3787B2RF	0.794	40	0.791	39	0.644	45	0.630	39
PHY 4433-25	0.668	27	0.781	38	0.710	31	0.627	40
CT 13363B2RF	0.957	51	0.752	35	0.645	44	0.627	41
CG 3428B2RF	0.806	42	0.743	34	0.637	47	0.617	42

PHY 4433-27	0.798	41	0.924	49	0.681	37	0.612	43
PHY 367WRF	0.564	11	0.843	44	0.667	39	0.611	44
CT 13883	0.649	24	0.666	28	0.661	41	0.601	45
CT 13663	0.868	47	0.808	42	0.662	40	0.600	46
DP 1252B2RF	0.935	50	0.680	29	0.596	49	0.595	47
CT 13125B2RF	0.721	38	1.000	51	0.650	43	0.593	48
DP 1359B2RF	0.577	14	0.642	27	0.640	46	0.582	49
AM 1504B2RF	0.823	45	0.610	22	0.576	50	0.541	50
CT 13513RF	0.931	49	0.898	47	0.484	51	0.463	51

\*AM = Americot, AT = All-Tex, BX = experimental line for Bayer CropScience, CG = Croplan Genetics, CT = experimental line for Dynagro, DP = Deltapine, FM = Fibermax, NG = NexGen, NGX = experimental line for NexGen, PHY = Phytogen, ST = Stoneville.

\*\*Relative wilt was calculated by dividing the wilt rating at a site by the highest average wilt rating at the same site for a variety. Relative defoliation was calculated by dividing the % defoliation by the highest average defoliation rating for a variety at that site. Relative yield was calculated by dividing the yield by the highest average yielding variety at that site. A value of 1 for relative wilt or defoliation indicates that the variety was the most susceptible to wilt. A value of 1 or close to 1 for relative yield indicates that the variety consistently yielded close to the best variety at each site.