

2001 Peanut, Cotton and Tobacco Performance Tests

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Publication RR 677 published on March 18, 2014

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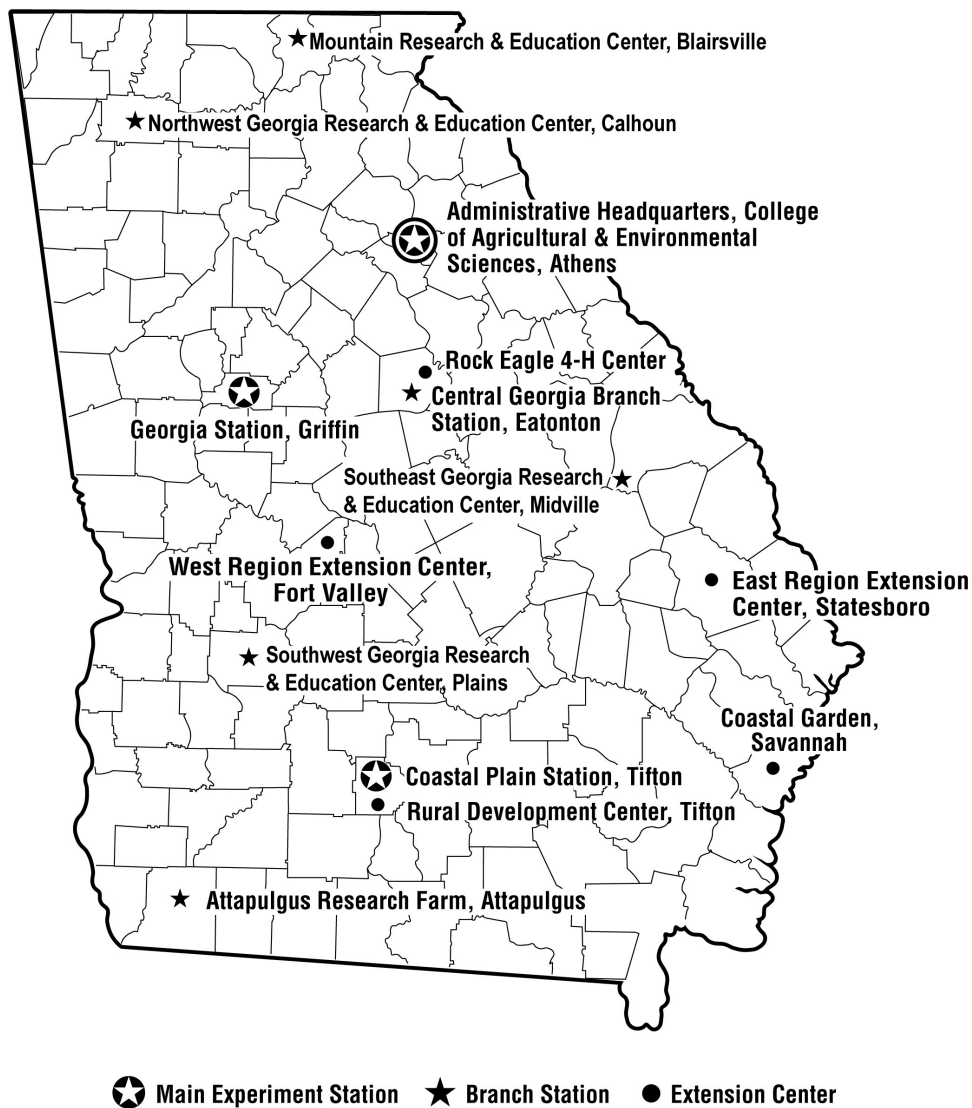
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Preface

This research report presents the results of the 2001 statewide performance tests of peanut, cotton and tobacco. The tests for various evaluations were conducted at several or all of the following locations: Bainbridge, Tifton, Plains and Midville in the Coastal Plain region and Athens in the Piedmont region. For identification of the test site locations, consult the map below.

Agronomic information such as plant height, lodging, disease occurrence, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the trials, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose, and agreed upon by College of Agricultural and Environmental Sciences agronomists, are presented in the 2001 Spring Planting Schedule for Georgia (available from your county extension office). Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by the University of Georgia Agricultural Experiment Station. For additional information, contact your local county extension agent or the nearest experiment station.



The least significant difference (LSD) at the 5 or 10 percent levels has been included in the tables to aid in comparing hybrids. If the yields of any two hybrids differ by the LSD value or more, they may be considered different in yield ability.

This report is one of five publications presenting the 2001 performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 2001 Corn Performance Tests (Report 675); 2000-2001 Small Grains Performance Tests (Report 673); 2000-2001 Canola Performance Tests (Report 674); and 2001 Soybean, Sorghum Grain and Silage, Grain Millet, and Summer Annual Forages Performance Tests

(Report 676).

This report along with performance test information on other crops is also available at our web site: www.swvt.uga.edu.

Additional information may be obtained by writing J. LaDon Day, Crop and Soil Sciences Department, University of Georgia, Georgia Station, Griffin, GA 30223-1797.

The Season: 2001 Rainfall

Growing conditions improved during the 2001 crop season, as a more normal rainfall pattern along with cooler temperatures occurred across most of the state. These favorable weather patterns were a much needed relief to Georgia farmers who battled extreme drought conditions the past three years. Although dry weather impeded planting in May, irrigation helped allow a relatively timely planting of the 2001 Georgia crops. As a result of the favorable weather, the status of crops was good to excellent throughout the growing season.

Rainfall at four Georgia test sites is listed below. Although the total seasonal rainfall amounts were below normal at two sites, distribution of rainfall was good and soil moisture during the growing season was more normal than any year since 1997. Weather during the first two months of the year (data not shown) did not improve and a water shortage emergency was declared; therefore, some farmers participated in the program to take payment not to irrigate their crops during the 2001 crop year. Then, most areas in the state received torrential rainfall during March and June.

2001 Rainfall¹				
Month	Athens²	Midville	Plains	Tifton
	----- inches -----			
March	8.37	8.30	10.67	9.95
April	1.82	1.44	2.39	1.69
May	4.25	2.09	1.33	1.51
June	5.54	4.00	11.57	6.95
July	8.95	1.55	3.70	3.42
August	1.90	1.74	2.65	1.84
September	2.07	3.26	4.98	3.11
October	0.20	0.25	0.12	2.49
Total	33.10	22.63	37.41	30.96
Normal (8 mo)	32.26	31.17	31.99	32.72
¹ Data provided in part by Dr. G. Hoogenboom, Georgia station, Griffin, GA.				
² Plant Sciences Farm.				

Georgia farmers continue to reduce planted acres of some row crops. Peanut and tobacco acreage continued to decline as peanut and tobacco producers planted 480,000 and 27,000 acres of each, down 3 percent and 13 percent, respectively. However, number of planted acres in cotton increased to 1.6 million, 7 percent more than in 2000. Georgia farmers continue to search for drought tolerant crops.

The row crops in Georgia were much improved over the drought damaged crops of the past three years. Although there was some damage and increased incidence in disease brought in by Tropical Storm Allison in June, the overall benefit from the torrential rainfall far outweighed any damaging effect. A dry September and extremely dry October and November helped the harvest season to begin early and progress at a rapid rate. This year, the crop yields in Georgia were near record levels. The state average peanut yield for 2001 was estimated at 3,350 pounds per acre, second in recorded history to the year 1984 (record yield, 3,375 lb/acre in 1984). Peanut production increased 20 percent due to a 24 percent increase in average yield over 2000. Average cotton yield this year was estimated at 710 pounds per acre, 24 percent more than last year. Cotton production increased 32 percent over 2000 and was the most cotton produced during one year in Georgia in 87 years (fourth highest on record, higher in 1911, 1913 and 1914). Tobacco per acre yield increased during 2001 to 2,400 lb/acre (third highest on record), but total production was 6 percent less than 2000 due to the decline in planted acres.

Cooperators

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Contributors

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Cotton

Earlier Maturity Cotton Variety Performance

Bainbridge, Georgia: Earlier Maturity Cotton Variety Performance, 2001, Irrigated						
Entry	Lint Yield (lb/acre)	Lint (%)	Uniformity Index (%)	Length (inches)	Strength (g/tex)	Micronaire (units)
OA-87	1454	44.1	84.2	1.13	29.3	5.1
OA-85	1368	43.5	83.6	1.11	31.2	5.1
SG215BR	1368	41.8	83.6	1.02	27.5	5.7
PSC355	1364	42.1	84.3	1.09	32.0	5.7
SG747	1353	43.2	84.7	1.09	28.6	5.5
PM1560BG	1347	43.3	83.5	1.07	30.6	5.9
FM966	1320	42.5	84.1	1.13	36.7	5.4
SG125BR	1298	39.8	84.6	1.14	30.1	5.0
ST4892BR	1261	45.0	83.7	1.04	31.4	5.8
SG501BR	1252	40.0	84.5	1.10	31.1	5.3
BXN47	1243	43.1	84.2	1.12	29.9	5.2
DP51	1239	41.8	85.3	1.11	28.7	5.6
FM958	1227	42.5	84.0	1.15	33.8	5.1
AP1500RR	1224	41.0	83.7	1.13	30.4	4.7
DP451BR	1223	39.9	85.5	1.11	30.2	5.5
DP20B	1212	41.1	83.3	1.11	28.1	5.5
SG105	1210	41.1	84.6	1.11	32.3	5.3
DP491	1198	42.2	84.4	1.19	33.2	4.8
DP422BR	1190	41.5	83.4	1.09	28.0	5.3
DP425RR	1174	40.6	84.4	1.08	29.0	5.5
8806_3_2_35	1172	41.8	85.1	1.12	29.2	5.3
SG521R	1151	42.1	83.7	1.08	28.7	5.0
ST4691B	1143	43.5	85.0	1.15	29.4	5.1
DP428B	1138	39.3	84.7	1.15	29.1	5.4
DP436RR	1136	38.9	84.3	1.11	27.4	5.7
8839_3_10_2	1089	42.1	85.5	1.18	30.9	5.1
ST4793R	1056	44.3	82.5	1.05	30.7	5.7
8806_3_2_2_1	1043	40.7	84.7	1.08	30.5	5.3
8806_3_2_19	975	39.1	85.0	1.13	32.3	5.3
Average	1222	41.2	84.4	1.12	29.8	5.4
LSD 0.10	176	1.9	NS	0.05	2.2	0.5
CV %	12.2	2.7	1.2	2.5	4.2	5.4
Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).						
Planted:	April 30, 2001.					
Harvested:	September 27, 2001					

Fertilization:	165 lb N, 83 lb P ₂ O ₅ , and 168 lb K ₂ O/acre.					
	April	May	June	July	Aug.	Sept.
Rainfall (in):	-	3.50	9.10	5.40	2.05	1.67
Irrigation (in):	0.75	3.50	-	3.00	1.50	0.75
Trials conducted by Larry Thompson, Grant Henderson, Eddie McGriff, Mitchell May, and Joel Hudgins.						
Midville, Georgia: Earlier Maturity Cotton Variety Performance, 2001, Irrigated						
Entry	Lint Yield (lb/acre)	Lint (%)	Uniformity Index (%)	Length (inches)	Strength (g/tex)	Micronaire (units)
PSC355	1706	42.4	85.7	1.11	31.4	5.6
DP491	1628	44.7	86.9	1.22	32.4	4.9
OA-87	1619	44.3	85.1	1.14	29.5	5.3
BXN47	1543	43.6	84.8	1.10	30.1	5.4
DP428B	1534	41.2	85.7	1.15	26.5	5.1
SG501BR	1520	41.2	85.4	1.08	33.1	5.2
ST4892BR	1513	43.5	85.1	1.12	31.1	5.4
ST4691B	1510	43.8	84.9	1.14	28.2	4.9
PM1560BG	1506	43.2	85.2	1.11	30.2	5.4
OA-85	1497	46.6	83.5	1.11	29.9	4.9
8806_3_2_19	1495	41.7	85.9	1.14	32.9	5.3
SG105	1494	42.7	86.5	1.15	30.9	5.0
FM958	1481	42.8	85.3	1.16	34.3	5.2
SG747	1466	44.4	86.3	1.13	28.9	5.4
SG215BR	1425	43.0	85.1	1.08	28.0	5.3
8839_3_10_2	1424	40.1	86.1	1.15	30.7	5.4
SG125BR	1411	41.3	85.1	1.11	29.7	4.7
8806_3_2_2_1	1396	42.4	85.4	1.11	32.0	5.4
FM966	1384	43.4	85.3	1.14	35.5	5.1
8806_3_2_35	1362	43.4	85.7	1.13	30.7	5.4
DP451BR	1360	39.9	85.8	1.15	29.0	5.0
SG521R	1341	42.9	84.9	1.07	28.9	4.9
ST4793R	1334	44.7	84.2	1.07	30.9	5.5
DP422BR	1317	40.0	84.6	1.11	27.8	4.9
DP20B	1314	39.2	85.8	1.16	28.2	5.0
DP425RR	1298	39.9	85.5	1.11	27.7	5.1
DP51	1270	39.6	85.7	1.15	27.4	5.1
AP1500RR	1260	42.3	84.7	1.13	31.8	4.8
DP436RR	1243	40.4	85.3	1.15	27.8	5.2
<i>Average</i>	<i>1436</i>	<i>42.4</i>	<i>85.4</i>	<i>1.13</i>	<i>30.2</i>	<i>5.2</i>

<i>LSD 0.10</i>	202	1.2	0.6	0.02	1.8	0.3
<i>CV %</i>	12	1.7	0.4	1.4	3.5	3.7
Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).						
Planted:	May 7, 2001.					
Harvested:	October 10, 2001.					
Fertilization:	75 lb N, 40 lb P ₂ O ₅ , and 40 lb K ₂ O/acre.					
	April	May	June	July	Aug.	Sept.
Rainfall (in):	1.69	2.09	5.46	1.32	2.22	3.93
Irrigation (in):	-	.75	.75	1.50	4.50	.75
Trials conducted by Larry Thompson, Grant Henderson, and Bob McNeill IV.						
Plains, Georgia: Earlier Maturity Cotton Variety Performance, 2001, Irrigated						
Entry	Lint Yield (lb/acre)	Lint (%)	Uniformity Index (%)	Length (inches)	Strength (g/tex)	Micronaire (units)
PSC355	1945	44.8	83.7	1.11	29.4	5.1
FM958	1941	43.6	82.7	1.18	32.0	4.8
8839-3-10-2	1935	45.2	84.2	1.15	29.4	5.1
SG747	1913	45.6	84.6	1.14	28.1	5.2
DP451BR	1884	41.2	82.9	1.15	27.6	4.7
SG501BR	1846	41.6	83.8	1.10	30.1	4.9
SG125BR	1827	41.4	82.8	1.09	29.2	4.7
DP428B	1809	38.6	84.7	1.17	27.5	4.8
ST4892BR	1808	45.2	82.6	1.06	30.0	5.1
OA-85	1808	45.8	81.7	1.12	30.5	4.9
DP491	1802	44.4	83.2	1.22	31.8	4.7
PM1560BG	1798	43.1	83.2	1.11	31.3	4.8
SG215BR	1791	40.5	83.9	1.09	28.0	4.8
FM966	1787	43.3	84.5	1.15	34.6	4.7
ST4793R	1770	45.7	82.3	1.06	29.7	5.1
OA-87	1761	41.3	83.0	1.10	31.1	4.8
ST4691B	1759	42.4	82.2	1.10	29.8	4.8
DP20B	1717	39.5	84.0	1.17	28.9	4.5
8806-3-2-35	1706	43.3	83.4	1.10	29.3	5.1
8806-3-2-19	1705	43.3	82.8	1.11	32.8	4.8
BXN47	1694	43.3	83.6	1.10	29.7	4.9
8806-3-2-2-1	1681	42.1	84.3	1.10	29.9	5.0
SG521R	1662	41.7	84.6	1.11	27.9	4.7
DP425RR	1655	39.9	83.3	1.15	28.7	4.9
DP436RR	1611	37.7	82.2	1.12	27.6	4.4

SG105	1609	40.3	85.3	1.17	31.8	4.9
DP422BR	1608	42.7	82.5	1.11	29.7	4.6
AP1500RR	1556	41.8	82.4	1.13	31.4	4.5
DP51	1538	39.3	82.6	1.13	27.8	4.9
<i>Average</i>	<i>1756</i>	<i>42.3</i>	<i>83.3</i>	<i>1.12</i>	<i>29.8</i>	<i>4.8</i>
<i>LSD 0.10</i>	<i>118</i>	<i>3.7</i>	<i>1.3</i>	<i>0.03</i>	<i>1.9</i>	<i>0.3</i>
<i>CV %</i>	<i>5.7</i>	<i>5.1</i>	<i>0.9</i>	<i>1.6</i>	<i>3.7</i>	<i>4.3</i>
Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).						
Planted:	May 2, 2001.					
Harvested:	October 17, 2001.					
Fertilization:	69 lb N, 54 lb P ₂ O ₅ , and 27 lb K ₂ O/acre.					
	April	May	June	July	Aug.	Sept.
Rainfall (in):	2.59	1.39	11.94	4.37	2.97	5.33
Irrigation (in):	-	2.60	-	.75	-	-

Trials conducted by Larry Thompson, Grant Henderson, Stan Jones, and Ronnie Pines.

Tifton, Georgia: Earlier Maturity Cotton Variety Performance, 2001, Irrigated

Entry	Lint Yield (lb/acre)	Lint (%)	Uniformity Index (%)	Length (inches)	Strength (g/tex)	Micronaire (units)
OA-87	1756	44.4	84.8	1.16	29.3	4.8
SG215BR	1734	40.6	84.7	1.11	28.7	4.7
SG105	1694	39.3	85.8	1.20	31.3	4.4
PSC355	1632	41.5	84.9	1.17	32.5	5.0
PM1560BG	1612	41.4	85.0	1.17	32.4	4.6
DP491	1609	41.3	87.0	1.27	32.8	4.4
SG521R	1604	40.7	83.7	1.12	30.2	4.7
DP428B	1583	38.5	85.0	1.20	29.1	5.0
FM966	1579	39.6	86.6	1.19	38.1	4.9
ST4892BR	1570	40.5	83.2	1.14	31.7	5.2
FM958	1568	40.7	85.3	1.20	36.9	5.0
BXN47	1560	41.6	83.3	1.12	32.0	4.7
8806_3_2_19	1560	39.0	85.0	1.16	33.4	4.9
8806_3_2_2_1	1545	40.0	85.2	1.16	32.5	4.8
SG501BR	1537	39.4	84.5	1.14	30.5	4.9
SG747	1513	40.4	85.0	1.17	29.6	4.6
SG125BR	1494	39.4	83.0	1.14	31.1	4.5
8839_3_10_2	1487	39.3	85.5	1.20	32.2	5.1
ST4691B	1474	39.7	84.3	1.17	29.7	4.6
DP451BR	1474	38.4	85.1	1.19	29.5	4.5

8806_3_2_35	1470	41.6	84.2	1.14	32.3	4.9
OA-85	1470	42.9	84.4	1.16	32.6	4.4
DP20B	1457	37.0	85.7	1.22	30.8	4.8
DP51	1422	35.4	84.5	1.18	28.5	4.4
DP422BR	1416	38.4	84.5	1.17	28.7	4.2
DP436RR	1334	36.3	84.3	1.18	29.2	4.8
ST4793R	1329	38.2	83.2	1.11	30.8	4.8
AP1500RR	1295	35.8	83.6	1.19	32.6	4.1
DP425RR	1288	37.7	83.9	1.17	29.2	4.8
<i>Average</i>	<i>1520</i>	<i>39.6</i>	<i>84.7</i>	<i>1.17</i>	<i>31.3</i>	<i>4.7</i>
<i>LSD 0.10</i>	<i>156</i>	<i>2.8</i>	<i>1.2</i>	<i>0.03</i>	<i>1.9</i>	<i>0.4</i>
<i>CV %</i>	<i>8.7</i>	<i>4.1</i>	<i>0.9</i>	<i>1.6</i>	<i>3.5</i>	<i>5.4</i>

Bolding indicates entries not significantly different from highest yielding entry based on Fisher's protected LSD (P = 0.10).

Planted:	April 27, 2001.					
Harvested:	September 20, 2001.					
Fertilization:	88 lb N, 54 lb P ₂ O ₅ , and 108 lb K ₂ O/acre.					
Management:	Telone II applied 3 gal/acre.					
	April	May	June	July	Aug.	Sept.
Rainfall (in):	1.45	1.86	7.68	3.57	2.29	4.70
Irrigation (in):	-	.50	.90	1.80	1.80	-

Trials conducted by Larry Thompson, and Grant Henderson.

Yield Summary for Earlier Maturity Cotton Varieties, 2001

Variety	Lint Yield ^a					Lint (%)	Unif. Index (%)	Length (inches)	Strength (g/tex)	Mic. units
	Bainbrid ge	Midville	Plains	Tifton	4-Loc. Avg.					
	----- lb/acre -----									
PSC355	1364 ³	1706 ¹	1945 ¹	1632 ⁴	1662¹	42.7	84.6	1.12	31.3	5.3
OA-87	1454 ¹	1619 ³	1761 ¹⁵	1756 ¹	1647²	43.5	84.3	1.13	29.8	5.0
SG215BR	1368 ^{2T}	1425 ¹⁵	1791 ¹²	1734 ²	1580³	41.4	84.3	1.07	28.0	5.1
PM1560BG	1347 ⁵	1506 ⁹	1798 ¹¹	1612 ⁵	1566⁴	42.7	84.2	1.11	31.1	5.2
SG747	1353 ⁴	1466 ¹⁴	1913 ⁴	1513 ¹⁵	1561 ⁵	43.4	85.2	1.13	28.8	5.2
DP491	1198 ¹⁷	1628 ²	1802 ¹⁰	1609 ⁶	1559 ⁶	43.1	85.3	1.22	32.5	4.7
FM958	1227 ¹²	1481 ¹³	1941 ²	1568 ¹¹	1554 ⁷	42.4	84.3	1.17	34.2	5.0
SG501BR	1252 ⁹	1520 ⁶	1846 ⁶	1537 ¹⁴	1539 ⁸	40.5	84.5	1.10	31.2	5.1
ST4892BR	1261 ⁸	1513 ⁷	1808 ^{9T}	1570 ¹⁰	1538 ⁹	43.5	83.6	1.09	31.0	5.3
OA-85	1368 ^{2T}	1497 ¹⁰	1808 ^{9T}	1470 ^{19T}	1536 ¹⁰	44.7	83.3	1.12	31.0	4.8
FM966	1320 ⁶	1384 ¹⁹	1787 ¹³	1579 ⁹	1518 ¹¹	42.2	85.1	1.15	36.2	5.0
DP428B	1138 ²³	1534 ⁵	1809 ⁸	1583 ⁸	1516 ¹²	39.4	85.0	1.17	28.0	5.0
BXN47	1243 ¹⁰	1543 ⁴	1694 ²⁰	1560 ^{12T}	1510 ¹³	42.9	83.9	1.11	30.4	5.0

SG125BR	1298 ⁷	1411 ¹⁷	1827 ⁷	1494 ¹⁶	1508 ¹⁴	40.4	83.9	1.12	30.0	4.7
SG105	1210 ¹⁶	1494 ¹²	1609 ²⁵	1694 ³	1502 ¹⁵	40.8	85.5	1.16	31.5	4.9
DP451BR	1223 ¹⁴	1360 ²¹	1884 ⁵	1474 ^{18T}	1485 ¹⁶	39.8	84.8	1.15	29.1	4.9
8839_3_10_2	1089 ²⁵	1424 ¹⁶	1935 ³	1487 ¹⁷	1484 ¹⁷	41.7	85.3	1.17	30.8	5.2
ST4691B	1143 ²²	1510 ⁸	1759 ¹⁶	1474 ^{18T}	1472 ¹⁸	42.4	84.1	1.14	29.3	4.8
SG521R	1151 ²¹	1341 ²²	1662 ²²	1604 ⁷	1440 ¹⁹	41.8	84.2	1.09	28.9	4.8
8806_3_2_19	975 ²⁸	1495 ¹¹	1705 ¹⁹	1560 ^{12T}	1434 ²⁰	40.8	84.7	1.13	32.8	5.0
8806_3_2_35	1172 ²⁰	1362 ²⁰	1706 ¹⁸	1470 ^{19T}	1428 ²¹	42.5	84.6	1.12	30.4	5.1
DP20B	1212 ¹⁵	1314 ²⁵	1717 ¹⁷	1457 ²⁰	1425 ²²	39.2	84.7	1.16	29.0	4.9
8806_3_2_2_1	1043 ²⁷	1396 ¹⁸	1681 ²¹	1545 ¹³	1416 ²³	41.3	84.9	1.11	31.2	5.1
DP422BR	1190 ¹⁸	1317 ²⁴	1608 ²⁶	1416 ²²	1383 ²⁴	40.7	83.7	1.12	28.5	4.7
ST4793R	1056 ²⁶	1334 ²³	1770 ¹⁴	1329 ²⁴	1372 ²⁵	43.2	83.0	1.07	30.5	5.3
DP51	1239 ¹¹	1270 ²⁷	1538 ²⁸	1422 ²¹	1367 ²⁶	39.0	84.5	1.14	28.1	5.0
DP425RR	1174 ¹⁹	1298 ²⁶	1655 ²³	1288 ²⁶	1354 ²⁷	39.5	84.3	1.13	28.6	5.1
AP1500RR	1224 ¹³	1260 ²⁸	1556 ²⁷	1295 ²⁵	1334 ²⁸	40.2	83.6	1.14	31.5	4.5
DP436RR	1136 ²⁴	1243 ²⁹	1611 ²⁴	1334 ²³	1331 ²⁹	38.3	84.0	1.14	28.0	5.0
<i>Average</i>	<i>1222</i>	<i>1436</i>	<i>1756</i>	<i>1520</i>	<i>1483</i>	<i>41.6</i>	<i>84.4</i>	<i>1.13</i>	<i>30.8</i>	<i>5.0</i>
<i>LSD 0.10</i>	<i>176</i>	<i>202</i>	<i>118</i>	<i>156</i>	<i>99</i>	<i>1.4</i>	<i>0.7</i>	<i>0.02</i>	<i>1.0</i>	<i>0.2</i>
<i>CV %</i>					<i>9.5</i>	<i>3.6</i>	<i>0.9</i>	<i>1.8</i>	<i>3.8</i>	<i>4.7</i>
<i>Variety X Location Probability Value^b</i>					<i>0.01</i>	<i>0.09</i>	<i>0.04</i>	<i>0.06</i>	<i>NS</i>	<i>NS</i>