

Cotton Variety Trials - 2005

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2005 Variety Yield Results

The Virginia Tech Cotton Variety Performance trial included 66 varieties at the Tidewater (Suffolk) Agricultural Research and Extension Center (TAREC). Fifty-six transgenic varieties (25 Roundup Ready Flex, 17 Bollgard, 12 Roundup Ready, and 2 Liberty Link), two conventional varieties, and eight new experimental varieties were evaluated in 2005.

The Virginia Cotton Variety Performance trials are conducted annually to provide an unbiased comparison of commercially available varieties, utilizing uniform cultural practices within each location. Variety performance in these trials was evaluated using standard production practices for nontransgenic varieties. At all locations, lint yield and fiber quality were obtained.

Trials in various locations in the production area make it possible to evaluate variety performance under the wide range of soil and climatic conditions existing in Virginia. The test was conducted on a Eunola loamy fine sand soil at TAREC. Additional strip trials were conducted at four locations and data were pooled and analyzed to evaluate eight transgenic varieties. The strip trial locations and cooperators are listed in Table 7.

The variety trial was planted on May 10. The trial was harvested on October 31.

Summary of Yield and Performance

Table 1 summarizes the performance of all the entries. Tables 2 through 7 summarize the performance by variety: Table 2 Roundup Ready Flex; Table 3 Bollgard; and Table 4 Roundup Ready, Liberty Link, and conventional. Table 5 presents the two-year averages for all varieties and Table 6 presents the three-year averages. Tables 7 and 8 present the specifics and results of the county strip trials.

In 2005, yields at the TAREC location ranged from 1,077 to 1,662 lb lint/A. Most varieties yielded higher in 2005 than 2004, consistent with state averages.

Variety Selection

Variety selection should be independent of weed or insect problems and should be based on yield and quality performance. If you have a difficult weed problem, then select the variety with the greatest potential for yield and quality that will help you manage the weed problem. Growers are advised to plant only a limited acreage of any new variety until more information and experience is available from a wide range of soil and climatic conditions. This has become more difficult in the past five to ten years because the commercial variety list has changed rapidly. The trend is likely to continue, considering several new transgenic technologies that will be registered over the next several years.

Yield Results, Tidewater Agricultural Research and Extension Center, Suffolk, Va.

Table 1. Yield, fiber quality, and performance of ALL cotton varieties, 2005.

All Varieties Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Fiber Properties		
						Len. (in.)	Str. (g/tex)	Uni.
DeltaPine	DP 444 BG/RR	1661.8	44.0	3.6	3.9	1.16	29.0	83.7
DeltaPine	DP 434 RR	1654.2	43.2	3.8	4.0	1.22	28.0	83.5
DeltaPine	DP 454 BG/RR	1653.6	44.9	3.8	3.4	1.14	30.1	83.2
DeltaPine	DPLX04Y170BR	1647.6	43.3	3.4	4.1	1.14	29.6	83.1
DeltaPine	DPLX03X179R	1646.1	44.4	3.4	4.1	1.19	30.5	84.1
DeltaPine	DP 393	1638.9	43.2	3.4	4.3	1.19	30.4	84.2
PhytoGen	PHY 370 WR	1637.7	42.9	3.5	4.1	1.12	29.6	82.2
PhytoGen	PHY 310 R	1611.3	43.4	3.3	4.3	1.12	28.8	83.4
DeltaPine	DP 445 BG/RR	1599.7	43.1	3.3	4.3	1.17	29.8	84.0
Stoneville	ST 4664 RF	1595.8	43.5	3.1	4.2	1.15	28.9	83.1
DeltaPine	DP 432 RR	1594.5	42.4	3.9	4.1	1.13	27.9	83.4
Stoneville	ST 4575 BR	1571.8	43.8	3.1	4.2	1.15	27.9	82.9
Stoneville	ST 5599 BR	1570.2	43.4	3.1	4.0	1.13	29.7	82.6
DeltaPine	DP 494 RR	1555.5	43.1	3.9	3.9	1.21	31.7	83.3
DeltaPine	DP 108 RF	1536.9	42.7	4.0	3.7	1.14	30.3	82.8
Stoneville	ST 4686 R	1528.9	43.0	3.4	4.2	1.14	28.8	83.1

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Table 1. Yield, fiber quality, and performance of ALL cotton varieties, 2005. (cont.)

All Varieties Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Len. (in.)	Fiber Properties	
							Str. (g/tex)	Uni.
Royster Clark	VXC 612	1519.7	40.8	3.0	3.9	1.20	27.8	84.1
DeltaPine	DP 449 BG/RR	1517.9	41.5	4.3	4.0	1.15	31.4	83.9
DeltaPine	DP 110 RF	1514.2	42.9	3.6	4.0	1.16	31.5	83.5
Bayer CropScience	FM 989 BR	1506.3	40.5	3.8	3.8	1.15	31.2	83.6
Stoneville	ST 4892 BR	1498.4	44.1	3.3	4.4	1.10	28.4	83.0
DeltaPine	DP 117 B2RF	1496.4	42.6	4.1	4.0	1.18	32.0	83.3
DeltaPine	DP 147 RF	1495.1	41.8	3.6	3.6	1.22	29.6	83.4
Stoneville	ST 4357 B2RF	1495.0	41.1	2.9	3.7	1.22	27.8	83.7
DeltaPine	DP 167 RF	1486.7	41.6	3.9	3.8	1.24	30.7	83.9
DeltaPine	DP 455 BG/RR	1472.1	43.7	3.8	3.8	1.17	30.7	81.9
Croplan Genetics	CG 3520 B2RF	1471.1	40.3	3.0	3.9	1.20	28.0	83.4
United Agri Products	DynaGro 2100 B2RF	1471.0	40.6	2.8	3.9	1.16	27.9	83.4
DeltaPine	DP 424 BGII/RR	1467.9	38.8	4.0	4.0	1.16	28.5	83.3
Royster Clark	VXC 601	1467.1	39.8	3.3	3.8	1.15	26.6	83.5
Stoneville	ST 4554 B2RF	1466.4	43.3	3.5	4.3	1.15	28.0	82.9
PhytoGen	PHY 480 WR	1461.2	40.3	3.4	4.0	1.17	29.1	83.8

Table 1. Yield, fiber quality, and performance of ALL cotton varieties, 2005. (cont.)

All Varieties Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Fiber Properties		
						Len. (in.)	Str. (g/tex)	Uni.
PhytoGen	PHY 425 RF	1455.0	41.3	3.3	4.4	1.16	29.7	83.7
Stoneville	ST 5303 R	1453.5	40.9	3.5	4.1	1.13	31.9	84.0
DeltaPine	DP 143 B2RF	1446.6	40.9	3.4	3.7	1.24	29.4	82.9
Bayer CropScience	FM 958 LL	1445.5	42.3	3.8	4.0	1.18	31.0	83.2
PhytoGen	PHY 485 WRF	1444.4	42.6	3.3	4.4	1.14	30.4	83.4
DeltaPine	DP 488 BG/RR	1444.0	41.2	3.4	3.7	1.21	30.7	83.3
Royster Clark	VCX 621	1438.0	41.9	3.1	4.2	1.19	27.9	83.0
Stoneville	ST 5242 BR	1436.5	42.2	3.3	4.2	1.12	27.2	83.9
Croplan Genetics	CG 3020 B2RF	1433.9	39.9	2.9	4.0	1.14	26.9	83.7
United Agri Products	DynaGro 2520 B2RF	1429.5	40.6	2.6	4.0	1.20	27.8	83.3
Stoneville	ST 5007 B2RF	1424.5	37.9	2.9	3.8	1.23	28.7	83.9
Royster Clark	VCX 611	1419.5	39.7	2.8	3.7	1.17	26.8	83.4
Stoneville	STX416B2R	1414.7	41.0	3.5	4.1	1.15	29.4	83.0
DeltaPine	DP 555 BG/RR	1396.1	45.1	4.0	4.1	1.15	29.7	82.2
PhytoGen	PHY 415 RF	1395.0	41.7	3.8	4.2	1.13	28.3	83.9
DeltaPine	DP 113 B2RF	1373.8	41.0	3.8	3.8	1.16	30.7	82.9

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Table 1. Yield, fiber quality, and performance of ALL cotton varieties, 2004. (cont.)

All Varieties Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Len. (in.)	Fiber Properties	
							Str. (g/tex)	Uni.
Bayer CropScience	FMX9166B2LL	1371.0	41.4	3.6	4.0	1.15	32.2	82.2
DeltaPine	DP 164 B2RF	1364.4	42.0	3.1	3.6	1.22	31.5	83.2
Bayer CropScience	FM 989 RR	1358.7	41.9	3.9	3.8	1.15	32.5	83.3
Bayer CropScience	FM 989 B2R	1355.4	40.9	3.8	3.7	1.17	31.7	83.2
DeltaPine	DPLX05X648DR	1354.3	44.0	4.0	4.3	1.14	28.9	81.9
DeltaPine	DP 156 B2RF	1346.0	41.5	3.6	3.8	1.21	29.3	82.6
Bayer CropScience	FM 960 RR	1337.8	41.3	3.9	3.4	1.18	31.3	83.1
Bayer CropScience	FM 960 BR	1334.9	40.4	3.5	3.8	1.13	31.9	82.9
Bayer CropScience	FMX0222B2LL	1319.5	40.2	4.1	3.8	1.18	31.1	83.1
PhytoGen	PHY 470 WR	1313.3	41.8	3.5	4.2	1.12	28.5	82.8
Bayer CropScience	FMX0052B2LL	1311.6	39.5	4.1	4.3	1.17	31.3	83.1
PhytoGen	PHY 72	1300.6	41.5	3.8	3.9	1.24	32.9	83.7
Bayer CropScience	FMX1003B2LL	1295.9	38.9	4.0	3.9	1.21	32.0	83.3
Bayer CropScience	FM 966 LL	1290.4	40.4	3.9	3.8	1.17	34.2	83.3
Bayer CropScience	FM 960 B2R	1249.8	40.4	3.6	4.1	1.19	32.1	82.8
DeltaPine	DP 152 RF	1248.5	41.1	3.9	3.9	1.20	29.3	82.5
DeltaPine	DP 543 BGII/RR	1248.1	40.9	3.8	4.0	1.17	30.7	83.2
DeltaPine	PM 2167 R	1077.8	40.2	3.3	4.3	1.03	26.9	82.0
	Mean	1452.1	41.8	3.5	4.0	1.17	29.8	83.2

Table 2. Yield, fiber quality, and performance of Roundup Ready Flex cotton varieties, 2005.

All Varieties Seed Company	Variety	Lint				Fiber Properties			
		Yield, lb/A	Lint %	Vigor	Mike	Len. (in.)	Str. (g/tex)	Uni.	
Stoneville	ST 4664 RF	1595.8	43.5	3.1	4.2	1.15	28.9	83.1	
DeltaPine	DP 108 RF	1536.9	42.7	4.0	3.7	1.14	30.3	82.8	
Royster Clark	VCX 612	1519.7	40.8	3.0	3.9	1.20	27.8	84.1	
DeltaPine	DP 110 RF	1514.2	42.9	3.6	4.0	1.16	31.5	83.5	
DeltaPine	DP 117 B2RF	1496.4	42.6	4.1	4.0	1.18	32.0	83.3	
DeltaPine	DP 147 RF	1495.1	41.8	3.6	3.6	1.22	29.6	83.4	
Stoneville	ST 4357 B2RF	1495.0	41.1	2.9	3.7	1.22	27.8	83.7	
DeltaPine	DP 167 RF	1486.7	41.6	3.9	3.8	1.24	30.7	83.9	
Croplan Genetics	CG 3520 B2RF	1471.1	40.3	3.0	3.9	1.20	28.0	83.4	
United Agri Products	DynaGro 2100 B2RF	1471.0	40.6	2.8	3.9	1.16	27.9	83.4	
Royster Clark	VCX 601	1467.1	39.8	3.3	3.8	1.15	26.6	83.5	
Stoneville	ST 4554 B2RF	1466.4	43.3	3.5	4.3	1.15	28.0	82.9	
PhytoGen	PHY 425 RF	1455.0	41.3	3.3	4.4	1.16	29.7	83.7	
DeltaPine	DP 143 B2RF	1446.6	40.9	3.4	3.7	1.24	29.4	82.9	
PhytoGen	PHY 485 WRF	1444.4	42.6	3.3	4.4	1.14	30.4	83.4	
Royster Clark	VCX 621	1438.0	41.9	3.1	4.2	1.19	27.9	83.0	

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Table 2. Yield, fiber quality, and performance of Roundup Ready Flex cotton varieties, 2005. (cont.)

All Varieties Seed Company	Variety	Lint Yield, lb/A	Fiber Properties					
			Lint %	Vigor	Mike	Len. (in.)	Str. (g/tex)	Uni.
Croplan Genetics	CG 3020 B2RF	1433.9	39.9	2.9	4.0	1.14	26.9	83.7
United Agri Products	DynaGro 2520 B2RF	1429.5	40.6	2.6	4.0	1.20	27.8	83.3
Stoneville	ST 5007 B2RF	1424.5	37.9	2.9	3.8	1.23	28.7	83.9
Royster Clark	VCX 611	1419.5	39.7	2.8	3.7	1.17	26.8	83.4
PhytoGen	PHY 415 RF	1395.0	41.7	3.8	4.2	1.13	28.3	83.9
DeltaPine	DP 113 B2RF	1373.8	41.0	3.8	3.8	1.16	30.7	82.9
DeltaPine	DP 164 B2RF	1364.4	42.0	3.1	3.6	1.22	31.5	83.2
DeltaPine	DP 156 B2RF	1346.0	41.5	3.6	3.8	1.21	29.3	82.6
DeltaPine	DP 152 RF	1248.5	41.1	3.9	3.9	1.20	29.3	82.5
	Mean	1449.4	41.3	3.3	3.9	1.18	29.0	83.3

Table 3. Yield, fiber quality, and performance of Bollgard Roundup Ready cotton varieties, 2005.

All Varieties Seed Company	Variety	Lint Yield, lb/A	Fiber Properties					
			Lint %	Vigor	Mike	Len. (in.)	Str. (g/tex)	Uni.
DeltaPine	DP 444 BG/RR	1661.8	44.0	3.6	3.9	1.16	29.0	83.7
DeltaPine	DP 454 BG/RR	1653.6	44.9	3.8	3.4	1.14	30.1	83.2
DeltaPine	DP 445 BG/RR	1599.7	43.1	3.3	4.3	1.17	29.8	84.0
Stoneville	ST 4575 BR	1571.8	43.8	3.1	4.2	1.15	27.9	82.9
Stoneville	ST 5599 BR	1570.2	43.4	3.1	4.0	1.13	29.7	82.6
DeltaPine	DP 449 BG/RR	1517.9	41.5	4.3	4.0	1.15	31.4	83.9
Bayer CropScience	FM 989 BR	1506.3	40.5	3.8	3.8	1.15	31.2	83.6
Stoneville	ST 4892 BR	1498.4	44.1	3.3	4.4	1.10	28.4	83.0
DeltaPine	DP 455 BG/RR	1472.1	43.7	3.8	3.8	1.17	30.7	81.9
DeltaPine	DP 424 BGII/RR	1467.9	38.8	4.0	4.0	1.16	28.5	83.3
DeltaPine	DP 488 BG/RR	1444.0	41.2	3.4	3.7	1.21	30.7	83.3
Stoneville	ST 5242 BR	1436.5	42.2	3.3	4.2	1.12	27.2	83.9
DeltaPine	DP 555 BG/RR	1396.1	45.1	4.0	4.1	1.15	29.7	82.2
Bayer CropScience	FM 989 B2R	1355.4	40.9	3.8	3.7	1.17	31.7	83.2
Bayer CropScience	FM 960 BR	1334.9	40.4	3.5	3.8	1.13	31.9	82.9
Bayer CropScience	FM 960 B2R	1249.8	40.4	3.6	4.1	1.19	32.1	82.8
DeltaPine	DP 543 BGII/RR	1248.1	40.9	3.8	4.0	1.17	30.7	83.2
	Mean	1469.7	42.3	3.6	4.0	1.15	30.0	83.2

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Table 4. Yield, fiber quality, and performance of Roundup Ready, Liberty Link, and Conventional cotton varieties, 2005.

All Varieties Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Fiber Properties		
						Len. (in.)	Str. (g/tex)	Uni.
DeltaPine	DP 434 RR	1654.2	43.2	3.8	4.0	1.22	28.0	83.5
DeltaPine	DP 393	1638.9	43.2	3.4	4.3	1.19	30.4	84.2
PhytoGen	PHY 370 WR	1637.7	42.9	3.5	4.1	1.12	29.6	82.2
PhytoGen	PHY 310 R	1611.3	43.4	3.3	4.3	1.12	28.8	83.4
DeltaPine	DP 432 RR	1594.5	42.4	3.9	4.1	1.13	27.9	83.4
DeltaPine	DP 494 RR	1555.5	43.1	3.9	3.9	1.21	31.7	83.3
Stoneville	ST 4686 R	1528.9	43.0	3.4	4.2	1.14	28.8	83.1
PhytoGen	PHY 480 WR	1461.2	40.3	3.4	4.0	1.17	29.1	83.8
Stoneville	ST 5303 R	1453.5	40.9	3.5	4.1	1.13	31.9	84.0
Bayer CropScience	FM 958 LL	1445.5	42.3	3.8	4.0	1.18	31.0	83.2
Bayer CropScience	FM 989 RR	1358.7	41.9	3.9	3.8	1.15	32.5	83.3
Bayer CropScience	FM 960 RR	1337.8	41.3	3.9	3.4	1.18	31.3	83.1
PhytoGen	PHY 470 WR	1313.3	41.8	3.5	4.2	1.12	28.5	82.8
PhytoGen	PHY 72	1300.6	41.5	3.8	3.9	1.24	32.9	83.7
Bayer CropScience	FM 966 LL	1290.4	40.4	3.9	3.8	1.17	34.2	83.3
DeltaPine	PM 2167 R	1077.8	40.2	3.3	4.3	1.03	26.9	82.0
	Mean	1453.7	42.0	3.6	4.0	1.16	30.2	83.3

Table 5. Two-year average of yield, fiber quality, and performance of all cotton varieties.

2-year average Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Fiber Properties		
						Len. (in.)	Str. (g/tex)	
DeltaPine	DP 434 RR	1500.3	43.2	3.5	4.2	1.19	28.1	83.1
DeltaPine	DP 444 BG/RR	1403.0	43.7	3.7	4.1	1.14	29.5	83.3
DeltaPine	DP 455 BG/RR	1374.6	43.8	3.6	4.0	1.14	30.8	82.2
DeltaPine	DP 393	1366.9	42.6	3.4	4.6	1.17	30.6	84.0
Bayer CropScience	FM 989 BR	1359.3	41.0	3.5	4.1	1.14	31.5	83.2
Stoneville	ST 4892 BR	1356.9	43.7	3.0	4.7	1.08	28.5	83.1
DeltaPine	DP 432 RR	1321.8	42.0	3.6	4.4	1.11	28.5	83.4
Bayer CropScience	FM 958 LL	1315.5	41.9	3.8	4.4	1.16	32.0	83.2
DeltaPine	DP 445 BG/RR	1299.1	43.1	3.1	4.5	1.15	29.9	83.3
Stoneville	ST 5303 R	1293.2	41.1	3.6	4.4	1.11	31.6	83.8
Stoneville	ST 4575 BR	1291.2	42.5	3.3	4.4	1.11	28.8	82.8
Stoneville	ST 4686 R	1276.7	42.5	3.4	4.4	1.13	29.0	82.7
DeltaPine	DP 488 BG/RR	1268.0	42.4	3.2	4.3	1.17	31.3	83.4
Stoneville	ST 5242 BR	1256.3	42.1	3.5	4.5	1.09	27.3	83.8
DeltaPine	DP 494 RR	1249.3	43.3	3.6	4.4	1.17	32.1	83.2
DeltaPine	DP 424 BGII/RR	1239.8	39.3	3.9	4.1	1.13	28.6	83.1
Stoneville	ST 5599 BR	1231.7	42.5	3.1	4.3	1.12	30.8	82.8
DeltaPine	DP 449 BG/RR	1221.0	41.4	3.3	4.4	1.12	30.8	83.6
Bayer CropScience	FM 989 B2R	1192.3	40.2	3.6	4.1	1.14	32.0	83.0

Table 5. Two-year average of yield, fiber quality, and performance of all cotton varieties. (cont.)

2-year average Seed Company	Variety	Lint Yield, lb/A	Lint %	Vigor	Mike	Fiber Properties		
						Len. (in.)	Str. (g/tex)	Uni.
DeltaPine	DP 555 BG/RR	1170.8	45.1	4.0	4.4	1.12	29.5	82.1
Bayer CropScience	FM 966 LL	1166.3	40.8	3.6	4.1	1.15	33.8	83.1
Bayer CropScience	FM 960 BR	1165.7	40.6	3.5	4.2	1.11	32.1	82.7
Bayer CropScience	FM 960 RR	1162.3	41.5	3.3	3.7	1.16	31.4	83.3
Bayer CropScience	FM 960 B2R	1109.7	40.5	3.4	4.3	1.16	31.6	82.8
	Mean	1274.7	42.1	3.5	4.3	1.13	30.4	83.1

Table 6. Three-year average of yield, fiber quality, and performance of all cotton varieties.

3-year average Seed Company	Variety	Lint Yield,				Fiber Properties		
		Ib/A	Lint %	Vigor	Mike	Len. (in.)	Str. (g/tex)	Uni.
DeltaPine	DP 393	1418.6	43.2	4.0	4.4	1.17	30.8	84.2
DeltaPine	DP 444 BG/RR	1353.0	42.5	3.9	3.9	1.17	29.6	83.2
DeltaPine	DP 432 RR	1330.1	42.2	3.7	4.2	1.12	29.4	83.5
Bayer CropScience	FM 989 BR	1308.1	40.4	3.7	4.0	1.15	32.2	83.5
Stoneville	ST 4892 BR	1306.8	43.0	3.1	4.5	1.10	29.5	83.4
Bayer CropScience	FM 958 LL	1261.9	42.7	3.3	4.2	1.18	32.1	83.4
Stoneville	ST 5599 BR	1238.5	42.3	3.3	4.1	1.13	31.4	82.9
Stoneville	ST 5303 R	1225.5	41.6	3.4	4.2	1.12	32.1	83.9
DeltaPine	DP 555 BG/RR	1177.5	45.5	3.7	4.2	1.14	30.5	82.6
DeltaPine	DP 424 BGII/RR	1173.6	38.0	4.0	4.0	1.14	29.0	83.3
Bayer CropScience	FM 960 BR	1138.3	39.4	3.4	4.0	1.12	32.9	83.1
Bayer CropScience	FM 966 LL	1121.7	40.1	3.4	4.0	1.15	34.0	83.6
DeltaPine	DP 449 BG/RR	1097.5	40.2	3.1	4.1	1.13	31.6	83.6
	Mean	1242.4	41.6	3.5	4.1	1.14	31.2	83.4

Summary of County Strip Trials

Table 7. Location, cooperator, and agent at all variety strip trials, 2005.

Location	Cooperator	Agent
City of Suffolk	Mike Griffin	Rex Cotton
Isle of Wight	Phillips Edwards	Glenn Rountree
Dinwiddie	Lance Everett	Mike Parrish
Sussex	Bob Rogers	Kelvin Wells
City of Suffolk	Tommy Rountree	Rex Cotton

Table 8. Combined yield, fiber quality, and performance of county variety strip trials (5 locations), 2005.

Seed Company	Variety	Lint Yield, lb/A	Lint, %	Mike	Len. (in.)	Fiber Properties	
						Str. (g/tex)	Uni.
DeltaPine	DP 445 BG/RR	1334.5	43.5	4.1	1.15	31.9	83.9
DeltaPine	DP 444 BG/RR	1314.0	43.9	3.8	1.14	30.1	82.9
DeltaPine	DP 455 BG/RR	1276.5	43.7	4.1	1.13	30.7	83.1
DeltaPine	DP 451 B/RR	1242.5	39.2	4.5	1.14	30.4	83.8
Stoneville	ST 5599 BR	1216.3	42.9	4.1	1.13	32.5	82.6
Stoneville	ST 4892 BR	1202.2	43.6	4.3	1.11	31.3	84.0
Bayer CropScience	FM 989 BR	1191.5	41.2	4.1	1.14	32.6	83.0
PhytoGen	PHY 470 WR	1188.1	41.8	4.1	1.12	31.2	83.6
	Mean	1245.7	42.5	4.1	1.13	31.3	83.4