



Table 1. Yield and agronomic results from the OSU cotton official variety test, Caddo Research Station, Fort Cobb, OK 2012.

Entry	Lint yield lb/acre	Grab sample turnout		Boll sample lint fraction		Boll size	Seed index	Lint index	Seed per boll	Storm resistance
		Lint	Seed	Picked	Pulled					
		-----%-----				g seed cotton/boll	g wt 100 fuzzy seed	g wt lint from 100 fuzzy seed	count/boll	visual scale (1=loose, 9=tight)
PhytoGen PHY 499WRF	1643	28.1	40.4	44.2	33.8	5.0	10.3	8.4	26.4	4.4
Deltapine DP 0912 B2RF	1640	27.6	42.9	41.8	32.5	5.5	10.8	8.0	29.3	3.4
NexGen NG 1511 B2RF	1611	28.3	39.0	44.6	34.0	5.4	10.8	9.0	27.0	5.6
Monsanto MON11R154B2R2	1608	26.6	42.4	42.8	32.4	5.4	10.2	7.8	29.6	3.9
Stoneville ST 5458 B2RF	1584	27.0	43.2	41.2	32.2	5.9	11.2	8.0	30.1	4.9
Deltapine DP 1044 B2RF	1573	26.1	42.7	42.4	32.6	4.9	10.5	7.7	26.8	5.0
Deltapine DP 1321 B2RF	1569	27.9	41.3	43.4	33.0	5.2	10.7	8.5	26.4	4.6
Bayer CropScience BCSBX1346GLB2	1564	26.8	43.4	41.7	32.9	6.2	11.6	8.5	30.4	5.3
Dyna-Gro DG 2595 B2RF	1553	27.5	42.5	42.3	32.7	5.6	10.9	8.2	29.0	4.0
All-Tex AT 9CR253 B2RF	1514	26.9	42.9	43.0	32.5	5.4	11.0	8.5	27.5	6.5
All-Tex AT Nitro 44 B2RF	1483	27.4	42.6	40.5	30.8	5.4	11.4	7.9	27.9	5.5
Deltapine DP 1212 B2RF	1480	28.5	42.7	42.9	32.7	5.7	11.3	8.6	28.4	4.6
Croplan Genetics CG 3156 B2RF	1453	27.9	38.9	43.3	32.8	4.9	11.0	8.6	24.6	5.8
Deltapine DP 1359 B2RF	1429	25.7	41.6	43.6	33.3	5.0	9.8	7.8	28.4	4.4
Dyna-Gro DG 2285 B2RF	1426	27.2	41.6	42.6	32.6	5.8	11.3	8.7	28.3	6.1
All-Tex AT Epic RF	1423	24.8	42.8	42.2	31.2	5.4	11.1	8.3	27.4	6.1
Croplan Genetics CG 3787 B2RF	1422	26.6	40.9	44.7	33.3	5.1	9.7	8.0	28.7	4.0
Deltapine DP 1311 B2RF	1413	27.7	41.6	44.2	34.3	5.1	8.9	7.2	30.8	6.9
Deltapine DP 1219 B2RF	1412	27.1	42.3	42.4	32.8	4.9	10.0	7.5	27.4	4.4
FiberMax FM 1740B2F	1410	27.2	40.8	42.7	32.7	5.4	10.8	8.3	28.4	5.6
Dyna-Gro DG 2570 B2RF	1409	26.3	44.1	41.7	31.9	6.1	11.6	8.4	30.7	5.6
Bayer CropScience BCSBX1347 GLB2	1407	27.6	41.1	41.1	31.3	5.8	10.9	7.8	30.4	6.1
Bayer CropScience BCSBX1348 GLB2	1395	24.8	44.0	41.2	31.8	5.1	10.9	7.7	27.5	4.1
Deltapine DP 1032 B2RF	1393	26.6	39.1	44.2	34.4	5.2	10.2	8.1	28.4	4.3
FiberMax FM 1944GLB2	1372	25.6	44.3	40.2	31.1	6.1	11.5	7.9	31.0	5.5
PhytoGen PHY 367WRF	1346	25.1	43.0	42.6	31.6	4.8	10.4	7.8	26.6	3.5
Monsanto MON 11R136B2R2	1336	25.4	41.9	41.2	31.1	5.5	10.6	7.5	30.0	5.0
PhytoGen PHY 375WRF	1325	25.7	40.3	42.8	31.9	5.5	10.9	8.3	28.0	4.3
FiberMax FM 2011GT	1321	28.0	40.7	43.3	33.3	6.4	12.5	9.9	28.1	7.3
FiberMax FM 2484B2F	1270	27.4	42.5	41.9	32.6	5.0	11.1	8.3	25.5	6.1
NexGen NG 3348 B2RF	1241	24.9	45.4	39.2	30.1	5.8	12.6	8.2	28.1	6.1
All-Tex AT Edge B2RF	1229	25.7	44.5	39.8	30.3	5.4	10.9	7.2	29.7	6.0
FiberMax FM 9058F	1146	23.4	41.5	40.0	29.3	5.1	12.5	8.5	24.0	7.6
NexGen NG 4012 B2RF	1125	24.9	41.9	40.9	30.5	5.6	11.8	8.3	27.5	6.0
FiberMax FM 9180B2F	1115	24.0	42.9	39.5	29.6	6.0	12.2	8.0	29.3	7.1
Dyna-Gro DG 2610 B2RF	1090	23.3	39.3	42.8	30.9	5.1	10.1	7.7	28.1	4.5
NexGen NG 4010 B2RF	1012	22.6	42.6	39.7	29.3	5.2	11.1	7.4	28.3	5.9
PhytoGen PHY 725RF	960	22.4	41.4	39.3	28.7	5.3	11.9	7.8	26.8	4.3
Test average	1387	26.2	42.0	42.0	32.0	5.4	11.0	8.1	28.2	5.3
CV, %	15.2	3.3	3.1	2.2	2.7	5.2	5.2	5.0	5.8	12.6
OSL	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
LSD	296	1.7	2.1	1.5	1.4	0.5	0.9	0.7	2.7	0.9

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.



Table 2. Fiber property results from the OSU cotton official variety test, Caddo Research Station, Fort Cobb, OK 2012.

Entry	Micronaire	Length	Staple	Strength	Uniformity	Elongation	Reflectance	Yellowness
	units	inches	32nds inch	g/tex	%	%	rd %	+b %
All-Tex AT 9CR253 B2RF	4.9	1.16	37.1	35.1	84.2	6.0	75.7	7.1
All-Tex AT Edge B2RF	4.9	1.21	38.6	35.2	82.6	5.8	65.7	5.9
All-Tex AT Epic RF	4.1	1.18	37.8	32.8	83.5	7.6	74.8	8.0
All-Tex AT Nitro 44 B2RF	4.9	1.24	39.6	36.6	84.0	6.5	65.5	6.4
Bayer CropScience BCSBX1346GLB2	4.6	1.20	38.4	35.3	84.4	6.6	69.5	7.3
Bayer CropScience BCSBX1347GLB2	4.8	1.19	38.1	31.1	82.9	4.3	67.9	6.5
Bayer CropScience BCSBX1348GLB2	4.4	1.22	39.1	30.9	82.1	4.7	72.5	6.8
Croplan Genetics CG 3156 B2RF	3.9	1.17	37.4	31.7	84.1	5.9	67.6	5.9
Croplan Genetics CG 3787 B2RF	4.5	1.21	38.6	31.3	84.7	7.1	74.9	7.4
Dyna-Gro DG 2595 B2RF	4.7	1.19	38.1	33.5	84.1	5.7	72.0	6.9
Dyna-Gro DG 2285 B2RF	4.8	1.18	37.7	32.3	84.0	7.1	71.6	7.5
Dyna-Gro DG 2570 B2RF	4.6	1.20	38.3	35.2	85.1	7.0	74.0	7.7
Dyna-Gro DG 2610 B2RF	3.9	1.20	38.5	31.3	84.5	7.4	75.6	7.7
Deltapine DP 0912 B2RF	5.2	1.15	36.8	33.9	84.2	6.3	70.1	6.9
Deltapine DP 1032 B2RF	4.6	1.20	38.3	32.8	82.8	5.7	72.8	7.0
Deltapine DP 1044 B2RF	4.7	1.16	37.0	32.7	82.5	7.1	70.6	7.0
Deltapine DP 1212 B2RF	5.0	1.21	38.7	35.1	84.2	7.4	68.3	7.2
Deltapine DP 1219 B2RF	4.4	1.22	39.1	35.8	83.3	5.8	73.1	6.7
FiberMax FM 1740B2F	5.2	1.18	37.9	35.9	83.9	5.2	72.5	7.3
FiberMax FM 1944GLB2	4.6	1.22	39.1	34.8	82.9	4.6	71.3	5.9
FiberMax FM 2011GT	5.0	1.18	37.6	33.8	83.8	5.2	71.3	6.9
FiberMax FM 2484B2F	4.7	1.19	38.0	35.9	82.0	5.0	73.1	6.4
FiberMax FM 9058F	4.2	1.26	40.3	34.8	84.4	4.5	71.2	6.5
FiberMax FM 9180B2F	4.8	1.18	37.8	34.8	85.4	5.3	70.9	6.3
Deltapine DP 1321 B2RF	5.0	1.19	38.2	33.8	84.6	7.8	70.1	7.2
Deltapine DP 1311 B2RF	4.1	1.19	38.0	33.8	83.9	7.1	71.6	6.4
Monsanto MON 11R136B2R2	4.3	1.27	40.6	35.0	82.7	6.1	71.9	6.6
Monsanto MON 11R154B2R2	4.5	1.21	38.6	37.9	83.5	5.9	72.1	7.1
Deltapine DP 1359 B2RF	4.2	1.21	38.7	36.8	83.0	5.8	74.2	7.7
NexGen NG 1511 B2RF	5.0	1.17	37.4	33.3	84.5	7.6	68.6	6.8
NexGen NG 3348 B2RF	4.2	1.18	37.6	34.1	83.4	5.6	69.3	7.1
NexGen NG 4010 B2RF	4.4	1.21	38.7	36.3	84.5	6.0	71.3	7.7
NexGen NG 4012 B2RF	4.6	1.19	38.0	35.1	83.4	5.1	70.1	7.2
PhytoGen PHY 367WRF	4.4	1.20	38.3	35.1	84.3	7.3	70.7	7.0
PhytoGen PHY 375WRF	4.5	1.17	37.4	32.7	83.6	6.1	71.3	6.9
PhytoGen PHY 499WRF	4.6	1.17	37.5	34.7	84.4	7.6	69.5	6.9
PhytoGen PHY 725RF	4.4	1.27	40.5	37.4	84.6	6.6	68.4	7.3
Stoneville ST 5458B2RF	5.2	1.16	37.2	34.5	82.0	5.6	67.3	7.3
Test average	4.6	1.20	38.3	34.3	83.7	6.2	71.0	7.0
CV, %	6.9	2.6	2.6	3.7	1.6	6.2	1.6	4.1
OSL	<0.0001	0.0004	0.0004	<0.0001	0.1960	<0.0001	<0.0001	<0.0001
LSD	0.5	0.05	1.6	2.1	NS	0.6	1.8	0.5

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.