



2015 COTTON VARIETY TESTING AND ON-FARM RESULTS



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General Information

The official cotton variety testing program (OVT) evaluates the performance of commercial and experimental cotton varieties. Varieties were tested at four non-irrigated locations during 2015. All locations were planted using a two row Seed Research Equipment Solutions Classic Aire planter. All locations were harvested using a 2-row commercial cotton picker modified with a system to collect cotton in mesh bags for weighing or weigh on picker with electronic scales. The 2015 OVT received 33 entries from five seed companies. Each company was charged an entry fee for each hybrid per location entered. Eight extra varieties were entered in the Suffolk-TAREC location as part of a regional variety testing program protocol.

Statistical Analyses

To determine yield differences among varieties at each location the authors have incorporated some basic statistics in the tables. The primary tool for determining the differences among varieties is the LSD (least significant difference) (0.1) value listed at the bottom of the column in the tables. When the difference between varieties is larger than the LSD value, then the varieties can be considered different; however when the difference between varieties is less than the LSD value these varieties cannot be considered different.

Relative Yield

When varieties are grown at multiple locations, each having differing yield potential, a comparison of absolute yield (lint yields) could bias variety comparisons to favor one variety over another. The purpose of the cotton OVT program is to evaluate varieties on genetic yield potential and fiber quality traits and not on differences in environmental conditions where they were tested.

To standardize absolute yields so comparisons can be made across locations, relative yields were calculated. Relative yields were calculated by taking individual plot yields and dividing by the highest average yield for a variety within each location:

$$\text{Relative Yield} = \frac{\text{Plot Yield}}{\text{Highest Avg. Yield}}$$

Relative yields for each plot were then averaged to calculate the average relative yield for a variety at a given location. The highest relative yield possible at each location is 1.00 and is equal to 100%.

Variety Selection

Selecting the appropriate variety for your given environment is the most important decision a cotton producer will face during the growing season. Producers should take notice that variety performance depends heavily on environmental conditions at the site where the variety is grown. For this reason, decisions should not be made using a variety's performance at a single location in a given year. Averages across locations should be evaluated carefully and relative yields give insights to where the variety ranks compared to the top yielding variety in that given environment. Varieties which consistently rank near the top in relative yield across years and locations have a higher yield stability. More stable varieties minimize yield fluctuations due to environmental conditions, but do not guarantee the maximum achievable yield level under every environmental condition.

Lint Quality Discounts

Lint quality discounts are based on 2015 discount table and do not reflect actual discounts given during the fall of 2015. Premiums and discounts are reported in points per pound.

2015 Agronomic Inputs for Locations

(Rates on a per acre basis)

Suffolk, VA - Tidewater AREC Location OVT Trial

Planted:	May 7, 2015
Harvested:	Oct. 31, 2015
Population:	43,560 plants/acre
Fertilizer:	254 lbs. of 6-16-39 per acre broadcast pre-plant 40 lbs. N per acre applied twice as 24-0-0-3S +1 qt. Boron dribbled between rows on June. 22 nd and June 30 th .
Cover Crop:	Small grain
PGR:	8 oz. Pentia [®] on Jun. 30, 2015 12 oz. Pentia [®] on July 21, 2015
Herbicide:	1 pt. Prowl H20 [®] and 1 qt. Cotoran [®] on May 8, 2015 1 pt. Select Max [®] on Jun. 17, 2015 1.5 pt. Cotton Pro [®] and 0.1 oz. Envoke [®] and 1 qt. MSMA [®] on Jul. 9, 2015
Insecticide:	8 oz. Orthene [®] on May 26, 2015 2 oz. Admire Pro [®] on Jun. 22, 2015 6.4 oz. Bifenthrin [®] and 3 oz. Belt [®] on Aug. 5, 2015 6.4 oz. Bifenthrin [®] and 3 oz. Belt [®] on Aug. 13, 2015
Harvest Aid:	1 qt. Finish 6 Pro [®] , 6 oz. Folex [®] , 3.2 oz. Dropp [®] on Oct. 8, 2015
Plot Size:	2 rows 35' x 36" 4 replications
Soil Type	Nansemond
Cooperator:	Karl Jones

Southampton Co., VA- Everett Farm OVT Trial

Planted: May 13, 2015

Harvested: Nov. 16, 2015

Population: 43,560 plants/acre

Fertilizer: 110 lbs. 0-0-60 per acre applied pre-plant
100 lbs. 18-46-0 per acre applied pre-plant
10 gals of 18-9-0-3.8S per acre applied in 2X2 band at planting
150 lbs. 15-0-15 broadcast early June
20 gals of 30% + Boron knifed in at side-dress application

PGR: 12 oz. Pix[®] on Jul. 10, 2015
16 oz. Pix[®] on Jul. 21, 2015

Herbicide: 32 oz. Roundup PowerMax[®], 1.5 oz. Valor[®], 25 oz. 2-4D Amine[®] on Apr. 11, 2015
32 oz. Roundup PowerMax[®] on May 31, 2015

Insecticide: 8 oz. Acephate[®] on May 31, 2015

Harvest Aids: 32 oz. Finish[®], 6 oz. Folex[®], 1.5 oz. FreeFall[®] on Oct. 11, 2015

Plot Size: 2 rows 35' x 36" 4 replications

Soil Type Emporia

Cooperator: Lewis and M.L. Everett

Isle of Wight Co., VA- Allen Farm OVT Trial

Planted:	May 6, 2015
Harvested:	Oct. 26, 2015
Population:	43,560 plants/acre
Fertilizer:	160 lbs. N, 40 lbs. P ₂ O ₅ , and 90 lbs. K ₂ O per acre
PGR:	8 oz. Pix [®] applied twice during the season
Herbicide:	Roundup PowerMax [®] applied three time during the season
Insecticide:	Orthene [®] at 1 st true leaf stage Baythroid [®] on Aug. 10, 2015
Harvest Aids:	12 oz. Def [®] , 2.5 pt. Prep [®] , 2.5 oz. Dropp [®]
Plot Size:	2 rows 35' x 36" 4 replications
Soil Type	Yemassee and Slage
Cooperator:	John Allen

On-Farm Variety Trials

Table 1: Planting and Harvest Date for County On-Farm Trials

County	Planting Date	Harvest Date
Southampton	May 7, 2015	Oct. 21, 2015
Isle of Wight	May 6, 2015	Oct. 26, 2015
Surry	May 19, 2015	Nov. 17, 2015
Suffolk	May 6, 2015	Dec. 5, 2015

Table 2: Relative yields for varieties entered at all locations in the 2015 Official Variety Testing (OVT) Program

Seed Company	Variety	Maturity	Relative Yield			Avg. Relative Yield
			TAREC	SHC	IOW	
Monsanto	DP 1538 B2XF	mid	0.99	0.94	0.90	0.94
Dow AgroSciences	PHY 499 WRF	mid	0.83	0.99	1.00	0.94
Bayer CropScience	ST 6182GLT	full	0.95	0.90	0.96	0.94
Dow AgroSciences	PHY 444 WRF	mid	0.85	1.00	0.91	0.92
Bayer CropScience	BX 1531GLT [†]	mid-full	1.00	0.90	0.83	0.91
Monsanto	DP 1639 B2XF	mid	0.86	0.95	0.89	0.90
Americot/NexGen	AMDG-7824 [†]	mid	0.84	0.95	0.91	0.90
Dow AgroSciences	PHY 487 WRF	mid	0.86	0.92	0.90	0.89
CPS Dyna-Gro	CT 14515 B2RF [†]	mid	0.82	0.99	0.84	0.88
Bayer CropScience	BX 1532GLT [†]	mid-full	0.87	0.94	0.84	0.88
Dow AgroSciences	PHY 333 WRF	early	0.81	0.87	0.92	0.87
Dow AgroSciences	PHY 312 WRF	early	0.74	0.87	0.99	0.87
Monsanto	DP 1612 B2XF	early	0.86	0.86	0.87	0.86
Dow AgroSciences	PHY 552 WRF	full	0.87	0.73	0.97	0.86
Monsanto	DP 1614 B2XF	early	0.75	0.88	0.94	0.86
Bayer CropScience	ST 6448GLB2	full	0.82	0.82	0.93	0.85
Dow AgroSciences	PHY 495 W3RF	mid	0.77	0.93	0.86	0.85
Bayer CropScience	ST 4848GLT	early-mid	0.80	0.93	0.82	0.85
Monsanto	MON 15R513B2XF [†]	early	0.69	0.93	0.93	0.85
Americot/NexGen	NG 3405 B2XF	early-med	0.72	0.90	0.90	0.84
Monsanto	DP 1518 B2XF	early	0.73	0.82	0.97	0.84
Bayer CropScience	ST 5115GLT	early-med	0.77	0.92	0.80	0.83
Monsanto	DP 1522 B2XF	early-mid	0.75	0.89	0.83	0.82
Bayer CropScience	ST 4949GLT	early-mid	0.85	0.82	0.78	0.82
Americot/NexGen	NG 3406 B2XF	early-med	0.78	0.86	0.80	0.81
Bayer CropScience	BX 1634GLT [†]	early-mid	0.73	0.77	0.83	0.78
Bayer CropScience	FM 1944GLB2	early-med	0.74	0.81	0.76	0.77
Bayer CropScience	ST 4946GLB2	early-med	0.72	0.88	0.70	0.77
Dow AgroSciences	PHY 427 WRF	early-mid	0.70	0.62	0.91	0.74
Bayer CropScience	ST 4747GLB2	early-med	0.74	0.77	0.68	0.73
CPS Dyna-Gro	DG 3385 B2XF	early-med	0.73	0.74	0.69	0.72
Bayer CropScience	ST 5289GLT	med	0.66	0.77	0.68	0.70
Bayer CropScience	ST 5032GLT	early-med	0.65	0.76	0.63	0.68
		Mean	0.795	0.867	0.854	
[†] Experimental lines not released		LSD (0.1)	0.089	0.155	0.137	

Table 3: Two year (2014-2015) relative yield averages for varieties tested each year

Seed Company	Variety	Avg. Relative Yield
Dow AgroSciences	PHY 444 WRF	0.94
Dow AgroSciences	PHY 499 WRF	0.93
Dow AgroSciences	PHY 333 WRF	0.91
Dow AgroSciences	PHY 495 W3RF	0.89
Bayer CropScience	ST 6182 GLT	0.88
Dow AgroSciences	PHY 312 WRF	0.88
Dow AgroSciences	PHY 552 WRF	0.87
Bayer CropScience	ST 6448 GLB2	0.86
Bayer CropScience	ST 4946 GLB2	0.85
Dow AgroSciences	PHY 487 WRF	0.84
Bayer CropScience	ST 5115 GLT	0.84
Bayer CropScience	ST 4747 GLB2	0.80
Dow AgroSciences	PHY 427 WRF	0.79
Bayer CropScience	FM 1944 GLB2	0.79
Bayer CropScience	ST 5032 GLB2	0.75
Bayer CropScience	ST 5289 GLB2	0.74
	Mean	0.85

Table 4: Three year (2013-2015) relative yield averages for varieties tested each year

Seed Company	Variety	Avg. Relative Yield
Dow AgroSciences	PHY 333 WRF	0.92
Dow AgroSciences	PHY 499 WRF	0.91
Bayer CropScience	ST 4946 GLB2	0.86
Bayer CropScience	ST 6448 GLB2	0.84
Bayer CropScience	ST 4747 GLB2	0.83
Dow AgroSciences	PHY 427 WRF	0.81
Bayer CropScience	FM 1944 GLB2	0.81
	Mean	0.86

Table 5: Lint yield and lint percentage of varieties tested during 2015 at the three OVT locations

Seed Company	Variety	Suffolk		Southampton Co.		Isle of Wight Co.	
		Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %
Monsanto	DP 1538 B2XF	1996.9	44.9	1179.4	42.5	1503.2	46.4
Dow AgroSciences	PHY 499 WRF	1679.8	43.2	1232.7	39.3	1674.8	44.4
Bayer CropScience	ST 6182GLT	1923.9	48.1	1129.2	45.7	1604.5	48.6
Dow AgroSciences	PHY 444 WRF	1720.9	45.1	1250.4	42.4	1523.9	44.3
Bayer CropScience	BX 1531GLT [†]	2023.2	48.2	1119.8	44.8	1392.2	47.4
Americot/NexGen	AMDG-7824 [†]	1702.0	43.5	1182.6	40.1	1527.2	42.9
Monsanto	DP 1639 B2XF	1748.2	43.3	1187.7	43.9	1498.7	43.8
Dow AgroSciences	PHY 487 WRF	1738.5	44.1	1152.4	39.6	1508.8	43.4
Bayer CropScience	BX 1532GLT [†]	1757.0	49.4	1172.8	46.4	1400.9	47.9
CPS Dyna-Gro	CT 14515 B2RF [†]	1654.0	43.3	1234.1	39.2	1414.3	44.3
Dow AgroSciences	PHY 312 WRF	1504.0	42.3	1083.9	39.9	1653.4	43.3
Dow AgroSciences	PHY 333 WRF	1647.2	45.5	1088.9	39.8	1545.2	42.7
Monsanto	DP 1612 B2XF	1737.5	46.0	1073.2	41.2	1460.5	43.4
Monsanto	DP 1614 B2XF	1515.9	45.7	1098.6	40.3	1571.4	46.9
Dow AgroSciences	PHY 552 WRF	1765.0	44.5	913.5	41.0	1626.4	46.0
Bayer CropScience	ST 4848GLT	1624.4	44.2	1167.1	43.4	1376.9	44.2
Monsanto	MON 15R513B2XF [†]	1387.6	41.8	1164.2	40.0	1560.4	44.0
Dow AgroSciences	PHY 495 W3RF	1554.1	43.2	1161.0	41.1	1444.5	43.4
Bayer CropScience	ST 6448GLB2	1652.2	43.5	1025.1	40.2	1553.8	43.0
Monsanto	DP 1518 B2XF	1467.9	42.0	1021.5	38.7	1619.2	46.9
Americot/NexGen	NG 3405 B2XF	1464.0	43.1	1122.3	41.6	1504.2	43.1
Bayer CropScience	ST 5115GLT	1563.3	40.9	1148.1	38.8	1336.0	44.3
Bayer CropScience	ST 4949GLT	1714.4	48.1	1028.1	42.2	1312.7	47.3
Monsanto	DP 1522 B2XF	1521.2	41.2	1112.6	39.9	1395.4	44.2
Americot/NexGen	NG 3406 B2XF	1568.4	45.8	1069.2	41.4	1346.4	44.6
Bayer CropScience	BX 1634GLT [†]	1470.7	42.0	961.8	39.9	1395.8	45.5
Bayer CropScience	FM 1944GLB2	1487.2	43.1	1017.8	37.7	1277.2	40.5
Bayer CropScience	ST 4946GLB2	1455.0	39.3	1104.5	38.3	1173.1	39.6
Dow AgroSciences	PHY 427 WRF	1407.9	40.9	773.1	37.8	1517.0	42.0
Bayer CropScience	ST 4747GLB2	1494.9	41.3	963.9	37.2	1130.8	41.2
CPS Dyna-Gro	DG 3385 B2XF	1480.1	42.6	922.5	39.5	1152.2	42.1
Bayer CropScience	ST 5289GLT	1331.5	41.8	965.8	40.3	1135.6	42.3
Bayer CropScience	ST 5032GLT	1312.0	39.1	948.8	37.4	1050.4	39.0
Monsanto	DP 1553 B2XF	1898.1	44.1	--	--	--	--
Monsanto	DP 1558NR B2RF	1767.6	43.5	--	--	--	--
Seed Source Genetics	SSG UA 222	1713.3	42.7	--	--	--	--
Monsanto	DP 1555 B2RF	1677.1	45.8	--	--	--	--
Seed Source Genetics	SSG HQ 210 CT	1501.0	40.8	--	--	--	--
Bayer CropScience	FM 2484 B2F	1422.9	42.2	--	--	--	--
Monsanto	DP 0912 B2RF	1411.0	36.1	--	--	--	--
Dow AgroSciences	PHY 725 RF	1183.4	39.3	--	--	--	--
[†] Experimental lines not released	Mean	1601.1	43.3	1084.1	40.7	1429.9	44.0
	LSD (0.1)	174.50	2.40	194.50	1.56	229.09	1.79

Table 6: Lint yield and lint percent of varieties from the four 2015 On-farm trial locations

Variety [¶]	Avg. across 4 loc.		Southampton Co.		Isle of Wight Co.		Surry Co.		City of Suffolk	
	Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %	Lint Yield lb./A	Lint %
PHY 333 WRF	1283.0	44.4	1514.7	43.8	1435.7	45.1	1256.4	45.1	925.2	43.3
PHY 312 WRF	1242.5	43.1	1445.7	42.4	1471.3	43.3	1141.5	43.1	911.5	43.5
PHY 499 WRF	1201.0	44.0	1406.8	42.7	1448.9	44.2	1116.2	45.3	832.3	43.9
PHY 495 W3RF	1195.0	44.2	1434.4	43.9	1379.0	43.5	1148.9	45.3	817.5	44.0
DP 1522 B2XF	1139.2	43.3	1320.1	42.8	1362.9	44.9	1029.3	41.8	844.6	43.8
PHY 444 WRF	1116.2	44.5	1297.0	43.7	1349.4	44.2	1087.4	46.2	731.2	43.6
NG 3405 B2XF	1110.1	43.6	1345.4	42.7	1347.8	43.8	1077.5	44.9	669.6	42.8
DP 1518 B2XF	1104.0	42.9	1234.1	41.0	1293.4	43.3	1037.1	44.0	851.4	43.4
DP 1538 B2XF	1101.4	43.9	1223.5	41.9	1396.1	45.3	1006.6	44.9	779.5	43.7
ST 4747 GLB2	1081.0	42.1	1440.1	41.5	1098.3	41.9	1057.4	43.5	728.0	41.6
NG 3406 B2XF	1078.5	43.6	1306.0	42.7	1163.9	43.5	1053.3	45.4	790.9	42.7
ST 4946 GLB2	1077.0	42.0	1163.2	41.5	1290.5	42.6	1089.5	42.4	764.7	41.6
Mean	1144.1	43.5	1344.3	42.5	1336.4	43.8	1091.8	44.3	803.9	43.2
LSD (0.1)	64.3	0.87	142.5	2.07	115.5	1.35	96.4	2.33	104.4	0.85

[¶]PHY = PhytoGen, Dow AgroSciences; DP = DeltaPine, Monsanto; NG = NexGen, Americot/NexGen; ST = Stoneville, Bayer CropScience

Table 7: Average lint quality and associated 2015 scheduled discounts for common varieties across all seven locations

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32 nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	37	4.5	29.1	83.1	41-4	2	9	10	-25	-4
DP 1522 B2XF	37	5.0	29.4	83.2	51-1	-226	14	14	-25	-223
DP 1538 B2XF	35	4.9	28.2	83.0	51-1	-186	-15	14	-79	-269
PHY 312 WRF	37	4.6	30.2	83.7	51-1	-72	21	19	20	-11
PHY 333 WRF	37	4.7	29.9	83.6	51-2	-72	18	19	-73	-108
PHY 444 WRF	39	4.3	31.2	84.1	41-4	-18	30	23	65	100
PHY 495 W3RF	36	4.7	31.5	83.3	51-1	-72	30	14	15	-13
PHY 499 WRF	36	4.9	31.2	83.8	51-2	-131	30	19	7	-75
ST 4747 GLB2	37	4.6	29.6	82.1	51-1	-35	11	3	-33	-54
ST 4946 GLB2	37	5.0	31.1	83.6	41-4	-189	27	17	21	-114
NG 3405 B2XF	36	4.7	27.0	82.2	51-1	-72	-42	4	-44	-154
NG 3406 B2XF	36	4.8	28.1	83.2	51-1	-92	-15	14	-44	-137
Mean	37	4.7	29.7	83.2	-	-97.1	9.9	14.2	-15.4	-88.5

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 8: Lint quality and associated 2015 scheduled discounts for common varieties at the OVT-Tidewater location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32 nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	38	4.3	30.7	84.2	21-1	0	20	25	545	590
DP 1522 B2XF	39	5.0	30.6	85.1	21-1	-260	20	35	545	340
DP 1538 B2XF	37	5.0	30.1	84.2	31-1	-260	20	25	475	260
PHY 312 WRF	38	4.5	31.9	85.2	31-1	0	40	35	490	565
PHY 333 WRF	38	4.5	31.3	84.3	41-1	0	40	25	265	330
PHY 444 WRF	41	4.2	31.3	85.4	21-1	15	40	35	545	635
PHY 495 W3RF	37	4.7	33.6	83.9	21-1	0	45	15	535	595
PHY 499 WRF	37	4.9	32.0	85.0	31-1	0	40	35	475	550
ST 4747 GLB2	39	4.5	30.3	82.8	31-2	0	20	5	490	515
ST 4946 GLB2	39	4.8	32.0	84.8	21-2	0	40	25	545	610
NG 3405 B2XF	37	4.5	28.4	83.8	11-2	0	0	15	535	550
NG 3406 B2XF	38	4.6	29.0	85.0	31-1	0	5	35	490	530
Mean	38	4.6	30.9	84.5	-	-42.1	27.5	25.8	494.6	505.8

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 9: Lint quality and associated 2015 scheduled discounts for common varieties at the OVT-Isle of Wight County location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32 nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	38	4.9	31.3	84.8	41-1	0	40	25	265	330
DP 1522 B2XF	38	5.3	32.3	84.2	41-1	-400	40	25	265	-70
DP 1538 B2XF	36	5.3	30.4	84.2	41-1	-400	20	25	245	-110
PHY 312 WRF	37	5.1	33.4	84.2	41-1	-260	45	25	250	60
PHY 333 WRF	38	5.2	32.3	85.1	41-4	-260	40	35	210	25
PHY 444 WRF	41	4.6	34.4	85.8	31-2	0	45	35	490	570
PHY 495 W3RF	36	5.0	33.9	84.0	41-2	-260	45	25	245	55
PHY 499 WRF	37	5.3	33.9	84.5	41-3	-400	45	25	250	-50
ST 4747 GLB2	38	4.9	32.4	82.8	41-2	0	40	5	265	310
ST 4946 GLB2	38	5.5	34.0	84.7	41-1	-400	45	25	265	-65
NG 3405 B2XF	37	5.0	29.8	82.8	41-1	-260	5	5	250	0
NG 3406 B2XF	37	5.1	31.5	84.3	41-1	-260	40	25	250	55
Mean	38	5.1	32.5	84.3	-	-241.7	37.5	23.3	270.9	90.0

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 10: Lint quality and associated 2015 scheduled discounts for common varieties at the OVT-Southampton County location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32 nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	36	4.7	28.9	82.9	51-1	0	0	5	-140	-135
DP 1522 B2XF	36	5.6	30.0	83.9	51-1	-400	20	15	-140	-505
DP 1538 B2XF	33	5.5	27.4	82.1	51-1	-400	0	5	-360	-755
PHY 312 WRF	36	5.1	31.0	84.3	41-2	-400	40	25	245	50
PHY 333 WRF	36	5.2	30.2	85.0	51-1	-260	20	35	-140	-345
PHY 444 WRF	39	4.8	31.4	85.9	41-1	-260	40	35	265	340
PHY 495 W3RF	35	5.0	31.4	83.6	41-2	0	40	15	170	-35
PHY 499 WRF	35	5.2	31.6	83.5	41-2	-260	40	15	170	-35
ST 4747 GLB2	37	5.0	29.6	82.7	51-1	-260	5	5	-140	-390
ST 4946 GLB2	37	5.3	32.7	85.0	41-2	-400	40	35	250	-75
NG 3405 B2XF	34	5.1	26.2	81.7	51-1	-260	0	0	-230	-490
NG 3406 B2XF	36	5.3	28.7	83.4	51-1	-260	0	15	-140	-525
Mean	36	5.1	2939	83.7	-	-263.8	20.4	17.1	-15.8	-241.7

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 11: Lint quality and associated 2015 scheduled discounts for common varieties at the Southampton County On-farm location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple	Mic	Str	Uni	HVI	Mic	Str	Uni	Staple / Color	TOTAL
	32nd		g/tex	%	Color		g/tex	%		
DP 1518 B2XF	37	4.0	27.3	81.9	51-4	15	0	0	-140	-125
DP 1522 B2XF	36	4.4	27.7	81.6	51-2	0	0	0	-140	-140
DP 1538 B2XF	35	4.3	25.9	81.5	51-3	0	-150	0	-160	-310
PHY 312 WRF	37	3.9	27.6	82.4	51-3	15	0	5	-140	-120
PHY 333 WRF	37	4.4	27.9	81.7	51-4	15	0	0	-140	-125
PHY 444 WRF	38	3.4	28.2	80.9	51-3	-170	0	0	-140	-310
PHY 495 W3RF	38	4.0	28.9	82.2	51-3	15	0	5	-140	-120
PHY 499 WRF	36	4.3	25.5	83.3	51-3	0	0	15	-140	-125
ST 4747 GLB2	37	4.4	28.6	80.7	51-2	15	0	0	-140	-125
ST 4946 GLB2	36	4.5	27.7	82.8	51-3	0	0	5	-140	-135
NG 3405 B2XF	35	4.0	25.2	80.7	51-3	15	-150	0	-140	-275
NG 3406 B2XF	36	4.2	26.3	82.7	51-1	15	0	5	-140	-120
Mean	36	4.1	27.5	81.9	-	-54	-25	2.9	-141.7	-169.2

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 12: Lint quality and associated 2015 scheduled discounts for common varieties at the Isle of Wight County On-farm location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple	Mic	Str	Uni	HVI	Mic	Str	Uni	Staple / Color	TOTAL
	32nd		g/tex	%	Color		g/tex	%		
DP 1518 B2XF	37	4.4	29.3	82.8	51-1	0	5	5	-140	-130
DP 1522 B2XF	37	5.1	28.4	82.7	51-3	-260	0	5	-140	-395
DP 1538 B2XF	36	5.1	29.3	83.7	51-3	-260	5	15	-140	-380
PHY 312 WRF	37	4.7	29.9	83.0	51-4	0	5	15	-140	-120
PHY 333 WRF	37	4.8	29.6	83.7	51-4	0	5	15	-140	-120
PHY 444 WRF	40	4.2	31.6	84.1	51-3	15	40	25	-140	-60
PHY 495 W3RF	36	4.9	32.2	83.5	51-4	0	40	15	-140	-85
PHY 499 WRF	36	4.9	31.1	83.9	51-4	0	40	15	-140	-85
ST 4747 GLB2	37	4.7	29.6	81.5	51-4	0	5	0	-140	-135
ST 4946 GLB2	36	5.0	30.5	82.2	51-4	-260	20	5	-140	-375
NG 3405 B2XF	36	4.6	26.9	82.7	51-4	0	0	5	-140	-135
NG 3406 B2XF	37	4.8	28.0	83.3	51-4	0	0	15	-140	-125
Mean	37	4.8	29.7	83.1	-	-63.8	13.8	11.3	-140.0	-178.8

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 13: Lint quality and associated 2015 scheduled discounts for common varieties at the Surry County On-farm location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	37	4.5	29.1	82.8	51-1	0	0	5	-140	-135
DP 1522 B2XF	36	4.7	30.0	83.6	51-1	0	20	15	-140	-105
DP 1538 B2XF	36	4.6	27.5	84.0	51-1	0	0	25	-140	-115
PHY 312 WRF	38	4.3	30.1	84.5	51-1	0	20	25	-140	-95
PHY 333 WRF	37	4.4	30.5	84.0	51-2	0	20	25	-140	-95
PHY 444 WRF	39	4.2	32.1	84.3	51-1	15	40	25	-140	-60
PHY 495 W3RF	36	4.6	32.1	84.3	51-1	0	40	25	-140	-75
PHY 499 WRF	37	4.7	32.2	84.1	51-4	0	40	25	-140	-75
ST 4747 GLB2	38	4.5	29.6	82.8	51-1	0	5	5	-140	-130
ST 4946 GLB2	37	4.6	31.3	84.1	51-1	0	40	25	-140	-75
NG 3405 B2XF	35	4.6	26.9	82.8	51-3	0	0	5	-160	-155
NG 3406 B2XF	35	4.7	27.2	82.8	51-2	0	0	5	-160	-155
Mean	37	4.5	29.9	83.7	-	1.3	18.8	17.5	-143.3	-105.8

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 14: Lint quality and associated 2015 scheduled discounts for common varieties at the City of Suffolk On-farm location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple 32 nd	Mic	Str g/tex	Uni %	HVI Color	Mic	Str g/tex	Uni %	Staple / Color	TOTAL
DP 1518 B2XF	37	4.5	27.0	82.5	61-1	0	0	5	-425	-420
DP 1522 B2XF	35	5.1	26.8	81.5	61-3	-260	0	0	-425	-685
DP 1538 B2XF	34	4.7	26.8	81.0	61-3	0	0	0	-470	-470
PHY 312 WRF	36	4.9	27.8	82.4	61-3	0	0	5	-425	-420
PHY 333 WRF	36	4.8	27.3	81.7	61-1	0	0	0	-425	-425
PHY 444 WRF	38	4.5	29.2	82.5	61-3	0	5	5	-425	-415
PHY 495 W3RF	35	4.8	28.5	81.5	61-4	0	0	0	-425	-425
PHY 499 WRF	36	5.0	29.0	82.3	61-4	-260	5	5	-425	-675
ST 4747 GLB2	36	4.7	27.4	81.6	61-3	0	0	0	-425	-425
ST 4946 GLB2	36	5.1	29.9	81.4	61-2	-260	5	0	-425	-680
NG 3405 B2XF	35	4.8	25.4	80.7	61-3	0	-150	0	-425	-575
NG 3406 B2XF	34	4.7	25.7	80.7	61-3	0	-150	0	-470	-620
Mean	36	4.8	27.6	81.7	-	-65.0	-23.8	1.7	-432.5	-519.6

[¶] Staple= Fiber Length reported in 32nds of an inch; Mic= Micronaire, Str= Fiber strength reported in grams per tex; Uni= Uniformity; HVI=color determined by the Rd & +b values.

^{¶¶} Discounted amounts taken from the Cotton Incorporated 2015 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.