



2017 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.

2017 Agronomic Inputs for Locations

(Rates on a per acre basis)

Suffolk, VA - Tidewater AREC Location OVT Trial

Planted:	May 9, 2017
Harvested:	Nov. 25, 2017
Population:	43,560 plants/acre
Fertilizer:	459 lbs. of 8-8-34 per acre broadcast pre-plant 75 lbs. N per acre 24-0-0-3S + 2 qt. Boron 10% on Jun. 28, 2017
PGR:	6 oz. Pentia® on Jul. 12, 2017 16 oz. Pentia® on Jul. 17, 2017
Herbicide:	1 pt. Prowl®, 1 qt. Cotoran® on May 10, 2017 24 oz. Roundup WeatherMax® on May 31, 2017 1 qt. Sequence® on Jun. 26, 2017
Insecticide:	8 oz. Orthene 97® on May 31, 2017 8 oz. Orthene 97® on Jun. 8, 2017 6.4 oz. Bifenture®, 20 oz. Prevathon® on Jun. 31, 2017 6 oz. Belay® on Jul. 12, 2017
Harvest Aid:	1 qt. Finish 6 Pro®, 6 oz. Folex®, 3 oz. Dropp® on Oct. 18, 2017
Plot Size:	2 rows 35' x 36" 4 replications
Soil Type	Nansemond
Cooperator:	Karl Jones

Southampton Co., VA- Everett Farm OVT Trial 1

Planted: May 17, 2017

Harvested: Nov. 16, 2017

Population: 43,560 plants/acre

Fertilizer: 75 lbs. N per acre 24-0-0-3S on Jul. 5, 2017
32 oz. Boron on Jul. 9, 2017

PGR: 12 oz. Pix[®] on Jul. 9, 2017
20 oz. Pix[®] on Jul. 25, 2017

Herbicide: 32 oz. Roundup PowerMax[®], 2 oz. Valor[®], 32 oz. 2-4D Amine[®] on Apr. 12, 2017
32 oz. Cotoran[®], 16 oz. Gramoxone[®] on May 18, 2017
32 oz. Roundup PowerMax[®], 1.3 oz. Staple[®] 2 times in-season

Insecticide: 18 oz. Velum Total[®] on May 17, 2017
8 oz. Acephate[®] on Jun. 5, 2017
10 oz. Besiege[®], 2.6 oz. Baythroid[®], 3 oz. Phase[®] on Aug. 9, 2017

Harvest Aids: 32 oz. Finish[®], 6 oz. Folex[®], 3 oz. Freefall[®] on Oct. 5, 2017

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

Soil Type Emporia

Cooperator: Lewis Everett

Southampton Co., VA- Drake Farm OVT Trial 2

Planted: May 18, 2017

Harvested: Nov. 1, 2017

Population: 43,560 plants/acre

Fertilizer: 250 lbs. 7-0-40, 12 gals. 17-17-0 on May 20, 2017
30 gals 24-0-0-3S on Jun. 29, 2017

PGR: 10 oz. VETO® on Jul. 7, 2017
16 oz. VETO® on Jul. 25, 2017
16 oz. VETO® on Aug. 16, 2017

Herbicide: 32 oz. Envy Six Max®, 32 oz. Havoc Amine®, 2 oz. Variety WDG® on Apr. 6, 2017
24 oz. Envy Six Max®, 32 oz. Sequence® on Jun. 6, 2017
24 oz. Envy Six Max® on Aug. 16, 2017

Insecticide: 18 oz. Velum Total® on May 18, 2017
2 oz. Livid 97® on Jun. 6, 2017
2 oz. Provoke® on Jul. 7, 2017
2 oz. Belt SC®, 6.4 oz. Reveal® on Jul. 25, 2017
6.4 oz. Reveal® on Aug. 16, 2017

Harvest Aids: 4 oz. Def 6®, 32 oz. Finish 6 Pro®, 3 oz. FreeFall® on Oct. 4, 2017

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

Soil Type Emporia + Slagle

Cooperator: Matt Drake

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

Planted:	May 19, 2017
Harvested:	Nov. 21, 2017
Population:	43,560 plants/acre
Fertilizer:	120 lbs. N, 15 lbs. P ₂ O ₅ , and 120 lbs. K ₂ O per acre
PGR:	8 oz. Pix [®] , 12 oz. Pix [®] , 16 oz. Pix [®] applied during the season
Herbicide:	1.5 pt. Prowl [®] on May 20, 2017 22 oz. Glyphosate [®] applied twice during the season
Insecticide:	18 oz. Velum Total [®] on May 19, 2017 Acephate [®] , Admire Pro [®] applied once during the season Baythroid [®] applied twice during the season
Harvest Aids:	12 oz. Def [®] , 3 pt. Prep [®] , 2 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	Cooperator	Planting Date	Harvest Date
Southampton 1	Richard Kitchen	May 22, 2017	Nov. 20, 2017
Southampton 2	Brian Darden	May 28, 2017	Nov. 17, 2017
Isle of Wight	John Allen	May 19, 2017	Nov. 21, 2017
Surry	Moyler Pond	May 18, 2017	Nov. 27, 2017
Sussex	Clay Lowe	May 22, 2017	Nov. 16, 2017

Table 2: Relative yields for varieties entered at all locations in the 2017 Official Variety Testing (OVT) Program

Seed Company	Variety	Maturity	Relative Yield				Avg. Relative Yield
			TAREC	SHC1	SHC2	IOW	
Monsanto	DP 1646 B2XF	mid-full	1.00	0.88	0.99	1.00	0.97
Monsanto	DP 1614 B2XF	early	0.91	0.97	0.98	0.82	0.92
Monsanto	DP 1522 B2XF	early-mid	1.00	0.91	0.85	0.89	0.91
Dow AgroSciences	PHY 300 W3FE	early	0.94	0.99	0.88	0.82	0.91
Dow AgroSciences	PHY 312 WRF	early	0.93	0.95	0.87	0.85	0.90
Dow AgroSciences	PHY 340 W3FE	early	0.91	1.00	0.86	0.84	0.90
Bayer CropScience	ST 5020 GLT	early-mid	0.97	0.93	0.95	0.73	0.90
Monsanto	DP 1835 B3XF	mid	0.83	0.88	1.00	0.86	0.89
Bayer CropScience	ST 5517 GLTP	mid	0.90	0.86	0.96	0.80	0.88
CPS Dyna-Gro	DG 3605 B2XF	mid-full	0.92	0.86	0.87	0.88	0.88
Monsanto	DP 1639 B2XF	mid	0.83	0.86	1.00	0.81	0.88
CPS Dyna-Gro	CT 1702 GLT [†]	mid-full	0.90	0.85	0.97	0.79	0.88
Dow AgroSciences	PHY 330 W3FE	early	0.89	0.92	0.82	0.85	0.87
CPS Dyna-Gro	CPS16214 B2XF [†]	early	0.89	0.88	0.86	0.84	0.87
Dow AgroSciences	PX 3A82 W3FE [†]	early	0.83	0.93	0.86	0.87	0.87
Dow AgroSciences	PX 4A54 W3FE [†]	mid	0.84	0.92	0.93	0.78	0.87
Bayer CropScience	ST 6182 GLT	mid-full	0.88	0.92	0.94	0.74	0.87
Dow AgroSciences	PX 3A99 W3FE [†]	early	0.87	0.88	0.87	0.83	0.87
Americot/NexGen	AMX 1710 B2XF [†]	mid	0.87	0.79	0.97	0.83	0.86
Bayer CropScience	ST 4848 GLT	early	0.87	0.89	0.90	0.74	0.85
Bayer CropScience	ST 5115 GLT	mid	0.87	0.80	0.95	0.77	0.85
Monsanto	DP 1820 B3XF	early-mid	0.78	0.82	0.92	0.88	0.85
Americot/NexGen	NG 5007 B2XF	full	0.86	0.90	0.91	0.72	0.85
Dow AgroSciences	PX 3A96 W3FE [†]	early	0.84	0.87	0.87	0.80	0.85
Dow AgroSciences	PX 5B76 W3FE [†]	mid-full	0.87	0.85	0.87	0.79	0.85
Americot/NexGen	NG 3522 B2XF	early-mid	0.86	0.90	0.84	0.77	0.84
Monsanto	DP 1725 B2XF	early-mid	0.76	0.89	0.93	0.79	0.84
Dow AgroSciences	PHY 450 W3FE	mid	0.79	0.86	0.88	0.83	0.84
CPS Dyna-Gro	DG 3526 B2XF	mid	0.82	0.86	0.90	0.77	0.84
Monsanto	DP 1851 B3XF	full	0.86	0.77	0.86	0.85	0.83
Dow AgroSciences	PHY 444 WRF	mid	0.88	0.81	0.90	0.75	0.83
Dow AgroSciences	PHY 480 W3FE	mid	0.75	0.81	0.92	0.83	0.83
Monsanto	DP 1538 B2XF	mid	0.88	0.82	0.81	0.76	0.82
Bayer CropScience	ST 4949 GLT	early-mid	0.77	0.87	0.87	0.76	0.81
Dow AgroSciences	PX 4A57 W3FE [†]	mid	0.77	0.77	0.95	0.77	0.81

Dow AgroSciences	PHY 490 W3FE	mid	0.77	0.79	0.86	0.81	0.81
Monsanto	DP 1840 B3XF	mid-full	0.77	0.76	0.98	0.71	0.80
Americot/NexGen	NG 4601 B2XF	mid	0.83	0.83	0.75	0.77	0.79
CPS Dyna-Gro	DG 1602 GLT	mid-full	0.72	0.70	0.82	0.81	0.77
Dow AgroSciences	PX 5B73 W3FE [†]	mid-full	0.69	0.67	0.93	0.74	0.76
Seed Source Genetics	SSG UA 222	early-mid	0.76	-	-	-	0.76
Dow AgroSciences	PHY 440 W3FE	mid	0.67	0.67	0.97	0.63	0.73
Dow AgroSciences	PX 2A28 W3FE [†]	early	0.73	0.72	0.80	0.68	0.73
Dow AgroSciences	PX 5A57 W3FE [†]	mid-full	0.69	0.69	0.73	0.65	0.69
Seed Source Genetics	SSG HQ 210	early-mid	0.57	-	-	-	0.57
		Mean	0.83	0.90	0.85	0.80	0.84
		LSD (0.1)	0.097	0.118	0.087	0.116	-

[†] Experimental lines not released

Table 3: Two-year (2016-2017) relative yield averages for varieties tested each year

Seed Company	Variety	Avg. Relative Yield
Monsanto	DP 1646 B2XF	0.93
Dow AgroSciences	PHY 312 WRF	0.90
Bayer CropScience	ST 5020 GLT	0.90
Monsanto	DP 1639 B2XF	0.87
CPS Dyna-Gro	DG 3526 B2XF	0.86
Monsanto	DP 1614 B2XF	0.86
Bayer CropScience	ST 6182 GLT	0.86
Monsanto	ST 4848 GLT	0.86
Monsanto	DP 1538 B2XF	0.85
Dow AgroSciences	PHY 444 WRF	0.84
Monsanto	DP 1725 B2XF	0.84
Monsanto	DP 1522 B2XF	0.83
Bayer CropScience	ST 5115 GLT	0.83
Americot/NexGen	NG 3522 B2XF	0.82
Mean		0.86

Table 4: Three-year (2015-2017) relative yield averages for varieties tested each year

Seed Company	Variety	Avg. Relative Yield
Dow AgroSciences	PHY 312 WRF	0.89
Monsanto	DP 1639 B2XF	0.88
Monsanto	DP 1538 B2XF	0.88
Bayer CropScience	ST 6182 GLT	0.88
Dow AgroSciences	PHY 444 WRF	0.86
Monsanto	DP 1614 B2XF	0.86
Bayer CropScience	ST 4848 GLT	0.85
Monsanto	DP 1522 B2XF	0.83
Bayer CropScience	ST 5115 GLT	0.83
Mean		0.86

Table 5: Lint yield and lint percentage of varieties tested during 2017 at the four OVT locations

Seed Company	Variety	Suffolk		Southampton1		Southampton2		Isle of Wight	
		Lint Yld lb./A	Lint %	Lint Yld lb./A	Lint %	Lint Yld lb./A	Lint %	Lint Yld lb./A	Lint %
Monsanto	DP 1646 B2XF	1921.9	43.8	2021.4	44.9	1806.6	47.6	1991.7	47.8
Monsanto	DP 1614 B2XF	1744.6	44.8	1999.8	45.5	1996.7	47.0	1635.2	48.0
Monsanto	DP 1522 B2XF	1918.2	45.9	1742.0	42.3	1880.1	46.2	1768.7	46.8
Dow AgroSciences	PHY 300 W3FE	1812.0	46.3	1801.0	44.6	2037.9	48.0	1635.0	48.7
Dow AgroSciences	PHY 312 WRF	1791.7	43.7	1786.6	42.4	1963.3	45.9	1696.5	47.8
Dow AgroSciences	PHY 340 W3FE	1745.4	46.1	1751.7	44.6	2057.9	49.1	1674.1	49.0
Bayer CropScience	ST 5020 GLT	1868.5	42.5	1950.0	41.6	1920.9	44.0	1460.5	42.3
Monsanto	DP 1835 B3XF	1587.2	45.3	2048.6	45.9	1807.1	47.2	1719.9	48.7
Bayer CropScience	ST 5517 GLTP	1738.3	44.0	1974.9	41.6	1777.9	43.3	1585.0	44.3
CPS Dyna-Gro	DG 3605 B2XF	1775.9	44.1	1772.2	43.8	1760.0	47.3	1747.7	47.3
Monsanto	DP 1639 B2XF	1600.8	45.5	2043.2	43.2	1778.7	45.2	1618.2	47.8
CPS Dyna-Gro	CT 1702 GLT [†]	1732.7	43.2	1978.0	43.8	1753.9	42.8	1566.1	47.0
Dow AgroSciences	PHY 330 W3FE	1704.7	46.2	1682.7	44.2	1902.1	47.2	1697.6	47.5
CPS Dyna-Gro	CPS16214 B2XF [†]	1710.7	42.5	1791.7	42.9	1809.7	45.3	1669.7	46.7
Dow AgroSciences	PX 3A82 W3FE [†]	1586.4	42.2	1763.1	43.8	1902.6	46.5	1736.0	48.7
Dow AgroSciences	PX 4A54 W3FE [†]	1618.6	45.7	1905.4	44.1	1901.1	46.5	1559.7	45.6
Bayer CropScience	ST 6182 GLT	1695.0	45.7	1926.0	48.3	1887.5	48.2	1470.8	47.7
Dow AgroSciences	PX 3A99 W3FE [†]	1677.9	44.9	1790.5	42.5	1815.6	45.9	1659.5	47.5
Americot/NexGen	AMX 1710 B2XF [†]	1666.4	46.3	1989.0	45.1	1627.5	44.0	1643.8	47.1
Bayer CropScience	ST 4848 GLT	1671.6	46.9	1847.1	43.4	1840.7	47.3	1481.5	48.7
Bayer CropScience	ST 5115 GLT	1678.3	44.2	1940.4	41.2	1654.3	42.9	1538.5	45.3
Monsanto	DP 1820 B3XF	1493.9	44.9	1880.2	45.3	1692.6	48.3	1749.8	50.7
Americot/NexGen	NG 5007 B2XF	1649.1	43.4	1869.5	42.0	1860.3	45.4	1424.4	45.7
Dow AgroSciences	PX 3A96 W3FE [†]	1616.0	42.0	1776.2	42.5	1793.5	44.5	1601.2	46.0
Dow AgroSciences	PX 5B76 W3FE [†]	1677.0	43.9	1787.9	41.6	1738.4	47.7	1576.4	45.4
Americot/NexGen	NG 3522 B2XF	1649.5	43.8	1726.3	42.9	1857.8	46.6	1538.5	46.3
Monsanto	DP 1725 B2XF	1458.7	42.4	1897.4	45.9	1833.2	48.1	1573.7	45.2
Dow AgroSciences	PHY 450 W3FE	1511.9	43.8	1802.9	42.6	1763.1	44.6	1660.2	47.1
CPS Dyna-Gro	DG 3526 B2XF	1565.4	44.3	1841.8	43.8	1768.7	46.0	1531.4	47.4
Monsanto	DP 1851 B3XF	1644.2	43.7	1756.3	43.8	1579.2	44.3	1699.8	47.0
Dow AgroSciences	PHY 444 WRF	1692.6	45.5	1820.3	43.2	1667.9	45.8	1486.4	47.0
Dow AgroSciences	PHY 480 W3FE	1433.9	42.6	1883.1	43.3	1668.6	44.3	1646.3	47.9
Monsanto	DP 1538 B2XF	1685.0	45.3	1663.4	42.0	1684.8	44.1	1507.7	47.4
Bayer CropScience	ST 4949 GLT	1472.0	46.6	1771.2	44.6	1785.6	49.1	1503.3	49.1
Dow AgroSciences	PX 4A57 W3FE [†]	1472.4	44.5	1942.7	44.8	1575.2	46.8	1528.6	49.9

Dow AgroSciences	PHY 490 W3FE	1482.4	45.9	1769.5	43.1	1619.5	45.3	1606.2	46.7
Monsanto	DP 1840 B3XF	1479.6	43.8	2008.8	43.1	1553.7	44.7	1414.5	44.3
Americot/NexGen	NG 4601 B2XF	1602.8	42.9	1528.4	42.5	1698.3	43.1	1526.5	45.5
CPS Dyna-Gro	DG 1602 GLT	1390.8	44.3	1687.0	41.6	1441.6	44.6	1620.7	46.9
Dow AgroSciences	PX 5B73 W3FE [†]	1320.2	43.2	1909.5	42.9	1383.4	44.5	1476.9	47.0
Dow AgroSciences	PHY 440 W3FE	1277.6	43.6	1976.1	44.4	1386.2	44.6	1259.4	48.4
Dow AgroSciences	PX 2A28 W3FE [†]	1394.9	43.7	1648.1	41.6	1476.4	45.4	1347.0	45.8
Dow AgroSciences	PX 5A57 W3FE [†]	1326.7	42.8	1504.7	41.3	1421.5	43.9	1303.2	45.7
Seed Source Genetics	SSG UA 222	1455.5	42.4	.	.	.	.	.	.
Seed Source Genetics	SSG HQ 210	1089.9	41.6	.	.	.	.	.	.
	Mean	1602.0	44.2	1836.2	43.5	1747.3	45.8	1584.6	47.0
	LSD (0.1)	186.41	1.53	241.56	1.43	178.56	1.90	229.92	1.93

[†]Experimental lines not released

Table 6: Lint yield and lint percent of varieties from the five 2017 On-Farm trial locations

Variety [†]	Avg. across 5 loc.		Surry Co.		Isle of Wight Co.		Southampton Co.1		Southampton Co.2		Sussex Co.	
	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 %	Lint Yield lb./A	Lint %
PHY 330 W3FE	1496.5	45.4	1633.7	47.1	1460.9	46.7	1582.8	43.7	1518.0	43.3	1287.0	46.0
DP 1646 B2XF	1493.0	45.3	1565.6	46.0	1679.8	46.0	1645.8	44.7	1476.7	43.7	1097.0	46.0
PHY 312 WRF	1471.5	44.4	1541.1	44.8	1568.9	45.2	1619.4	44.3	1399.4	41.8	1227.9	46.0
DP 1725 B2XF	1385.9	45.9	1479.9	47.1	1495.9	47.9	1508.2	43.1	1397.2	44.1	1048.4	47.1
DP 1639 B2XF	1364.2	45.7	1491.1	46.0	1501.5	46.3	1357.4	44.8	1415.4	44.1	1055.4	47.1
NG 3522 B2XF	1351.0	42.7	1427.1	45.5	1372.0	44.0	1484.8	43.7	1413.9	40.8	1057.4	42.5
PHY 450 W3FE	1344.4	44.1	1584.8	47.1	1422.8	44.4	1352.8	43.1	1265.3	42.1	1096.2	43.7
ST 5020 GLT	1304.9	42.2	1320.4	42.5	1393.6	43.7	-	-	1377.4	41.0	1128.2	41.4
NG 4601 B2XF	1298.9	45.1	1309.4	46.0	1398.2	46.0	1469.4	46.0	1264.2	42.9	1053.5	44.8
ST 5517 GLTP	1295.7	41.7	1257.1	43.7	1291.1	42.1	1462.7	41.4	1464.2	39.7	1003.3	41.4
ST 4848 GLT	1274.4	44.8	1454.1	47.1	1288.1	47.1	1246.5	42.5	1314.5	43.7	1058.9	43.7
Mean	1370.8	44.3	1460.5	45.5	1442.9	45.4	1473.0	43.7	1391.5	42.5	1101.2	44.5
LSD (0.1)	-	-	-	-	100.6	1.80	382.3	3.03	117.9	1.24	-	-

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

Table 7: Average lint quality and associated 2017 scheduled discounts for top 10 varieties in relative yield across all nine locations

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple	Mic	Str	Uni	HVI	Mic	Str	Uni	Staple / Color	TOTAL
	32 nd		g/tex	%	Color		g/tex	%		
DP 1646 B2XF	40	4.2	29.7	83.7	41-1	10	10	15	270	305
DP 1614 B2XF*	39	4.9	29.9	84.4	31-3	0	10	25	415	450
DP 1522 B2XF*	37	5.0	30.0	83.9	31-2	-230	30	15	450	265
PHY 300 W3FE*	38	4.7	31.5	84.0	31-1	0	50	25	460	535
PHY 312 WRF	38	4.3	30.8	84.1	41-2	0	30	25	270	325
PHY 340 W3FE*	37	4.7	31.3	83.7	31-2	0	50	15	450	515
ST 5020 GLT	40	4.5	32.1	84.5	41-1	0	50	25	270	345
DP 1835 B3XF*	39	4.5	32.0	84.0	31-1	0	50	25	460	535
ST 5517 GLTP	38	4.1	31.5	82.8	41-1	10	50	5	270	335
DG 3605 B2XF*	40	4.3	30.2	84.2	31-1	0	30	25	460	515
Mean	39	4.5	30.9	83.9	-	-21	36	20	378	413

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

*Varieties planted only in four locations (OVTs trials).

Table 8: Lint quality and associated 2017 scheduled discounts for top 10 varieties in relative yield at the Tidewater AREC OVT 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 1646 B2XF	40	4.5	30.9	84.3	31-1	0	30	25	460	515
DP 1614 B2XF	39	5.1	30.6	84.9	31-3	0	30	25	460	515
DP 1522 B2XF	38	5.1	30.2	84.7	21-4	-230	30	25	340	165
PHY 300 W3FE	38	4.9	31.3	83.9	21-4	-230	50	15	340	175
PHY 312 WRF	39	4.7	32.1	85.4	21-4	0	50	35	340	425
PHY 340 W3FE	37	4.7	30.6	84.1	21-3	0	30	25	445	500
ST 5020 GLT	40	4.8	32.2	85.1	31-1	0	50	35	460	454
DP 1835 B3XF	39	4.7	33.6	85.4	21-2	0	60	35	535	630
ST 5517 GLTP	39	4.4	31.5	83.9	21-4	0	50	15	340	405
DG 3605 B2XF	40	4.4	30.7	85.3	21-4	0	30	35	340	405
Mean	39	4.7	31.4	84.7	-	-46	41	27	406	428

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 9: Lint quality and associated 2017 scheduled discounts for top 10 varieties in relative yield at the Southampton Co. 1- Everett Farm OVT 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 1646 B2XF	39	4.2	29.2	83.2	51-1	10	10	15	-145	-110
DP 1614 B2XF	39	4.8	29.9	83.9	51-1	0	10	15	-145	-120
DP 1522 B2XF	37	4.8	29.7	83.0	51-1	0	10	15	-145	-120
PHY 300 W3FE	37	4.5	31.0	83.3	41-3	0	50	15	260	325
PHY 312 WRF	39	4.2	30.7	84.6	51-1	10	30	25	-145	-80
PHY 340 W3FE	37	4.7	30.9	83.4	41-4	0	30	15	205	250
ST 5020 GLT	39	4.4	32.1	83.8	51-1	0	50	15	-145	-80
DP 1835 B3XF	38	4.2	30.9	82.0	41-4	10	30	5	215	260
ST 5517 GLTP	38	4.2	31.7	83.1	41-3	10	50	15	270	345
DG 3605 B2XF	39	4.0	29.9	83.7	41-3	10	10	15	270	305
Mean	38	4.4	30.6	83.4	-	5	28	15	50	98

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 10: Lint quality and associated 2017 scheduled discounts for top 10 varieties in relative yield at the Southampton Co. 2- Drake Farm OVT 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 1646 B2XF	41	4.2	29.5	84.6	21-1	10	10	25	535	580
DP 1614 B2XF	39	4.9	29.8	84.4	31-2	0	10	25	460	495
DP 1522 B2XF	37	4.8	31.5	83.2	21-3	0	50	15	445	510
PHY 300 W3FE	38	4.7	33.4	85.3	21-4	0	60	35	340	435
PHY 312 WRF	39	4.5	32.4	84.9	31-1	0	50	25	460	535
PHY 340 W3FE	38	4.8	34.2	84.6	31-2	0	60	25	460	545
ST 5020 GLT	40	4.6	33.1	84.7	31-1	0	60	25	460	545
DP 1835 B3XF	39	4.5	32.3	85.1	21-2	0	50	35	535	620
ST 5517 GLTP	39	4.2	32.9	83.1	11-4	10	50	15	340	415
DG 3605 B2XF	41	4.5	30.7	84.2	21-4	0	30	25	340	395
Mean	39	4.6	32.0	84.4	-	2	43	25	438	508

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 11: Lint quality and associated 2017 scheduled discounts for top 10 varieties in relative yield at the Isle of Wight Co.- Allen Farm OVT 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 1646 B2XF	40	4.3	28.5	83.9	21-2	0	0	15	535	550
DP 1614 B2XF	38	4.9	29.4	84.2	21-3	0	10	25	460	495
DP 1522 B2XF	37	5.1	28.5	84.7	21-4	-230	0	25	340	135
PHY 300 W3FE	37	4.6	30.3	83.5	21-2	0	30	15	520	565
PHY 312 WRF	37	4.8	29.8	83.8	31-2	0	10	15	450	475
PHY 340 W3FE	37	4.5	29.6	82.7	21-2	0	10	5	520	565
ST 5020 GLT	39	4.5	31.4	84.3	21-3	0	50	25	460	5656
DP 1835 B3XF	38	4.6	31.3	83.4	21-4	0	50	5	340	395
ST 5517 GLTP	38	4.3	31.0	82.9	21-1	0	50	15	535	600
DG 3605 B2XF	40	4.3	29.6	83.7	21-1	0	10	15	535	560
Mean	38	4.6	29.9	83.7	-	-23	22	16	470	485

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 12: Lint quality and associated 2017 scheduled discounts for varieties at the Southampton Co. 1- Kitchen On-Farm location

Variety	Lint Quality [¶]					Discounted Amount ^{¶¶} (points per pound)				
	Staple	Mic	Str	Uni	HVI	Mic	Str	Uni	Staple / Color	TOTAL
	32 nd		g/tex	%	Color		g/tex	%		
PHY 330 W3FE	37	4.3	31.0	84.8	51-1	0	50	25	-145	-70
DP 1646 B2XF	40	3.9	29.3	83.2	41-4	10	10	15	215	250
PHY 312 WRF	37	4.2	30.9	83.5	41-2	10	30	15	260	315
DP 1725 B2XF	37	4.1	29.4	83.1	41-4	10	10	15	205	240
DP 1639 B2XF	37	4.4	30.5	83.3	51-1	0	30	15	-145	-100
NG 3522 B2XF	37	3.7	28.2	82.4	41-1	10	0	5	260	275
PHY 450 W3FE	37	4.7	32.7	84.7	51-1	0	50	25	-145	-70
ST 5020 GLT										
NG 4601 B2XF	37	4.5	30.0	83.3	41-2	0	30	15	260	305
ST 5517 GLTP	38	4.0	29.9	82.9	41-2	10	10	5	270	295
ST 4848 GLT	37	4.2	29.7	82.5	51-1	10	10	5	-145	-120
Mean	37	4.2	30.2	83.4	-	6	23	14	89	132

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 13: Lint quality and associated 2017 scheduled discounts for varieties at the Southampton Co. 2- Darden 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
PHY 330 W3FE	37	3.9	30.1	83.0	41-4	10	30	15	205	260
DP 1646 B2XF	40	4.0	29.4	83.8	41-2	10	10	15	270	305
PHY 312 WRF	38	4.0	30.2	83.5	41-3	10	30	15	270	325
DP 1725 B2XF	39	3.8	30.7	82.3	41-2	10	30	5	270	315
DP 1639 B2XF	37	4.3	31.2	83.9	41-4	0	50	15	205	270
NG 3522 B2XF	38	4.1	29.6	84.0	41-1	10	10	25	270	315
PHY 450 W3FE	37	4.5	32.2	84.8	41-4	0	50	25	205	280
ST 5020 GLT	40	4.1	31.3	83.9	51-1	10	50	15	-145	-70
NG 4601 B2XF	39	4.3	31.6	83.6	41-3	0	50	15	270	335
ST 5517 GLTP	39	3.9	31.9	82.3	51-1	10	50	5	-145	-80
ST 4848 GLT	38	4.3	30.3	84.3	51-1	0	30	25	-145	-90
Mean	38	4.1	30.8	83.6	-	6	35	16	139	197

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 14: Lint quality and associated 2017 scheduled discounts for varieties at the Isle of Wight Co.- Allen 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
PHY 330 W3FE	36	4.2	29.8	82.8	51-1	10	10	5	-150	-125
DP 1646 B2XF	40	3.8	29.2	83.0	41-3	10	10	15	270	305
PHY 312 WRF	37	4.0	29.9	83.2	41-4	10	10	15	205	240
DP 1725 B2XF	37	4.1	29.9	82.2	41-2	10	10	5	260	285
DP 1639 B2XF	36	4.4	29.1	82.7	41-4	0	10	5	185	200
NG 3522 B2XF	36	4.0	27.5	82.6	41-1	10	0	5	240	255
PHY 450 W3FE	35	4.6	30.9	83.5	51-1	0	10	15	-180	-155
ST 5020 GLT	39	.4	31.5	83.6	41-1	0	50	15	270	335
NG 4601 B2XF	37	4.3	32.7	83.7	51-1	0	50	15	-145	-80
ST 5517 GLTP	37	4.4	30.3	82.2	41-3	10	30	5	260	305
ST 4848 GLT	37	4.4	29.0	83.2	41-4	0	10	15	205	230
Mean	37	4.2	30.0	83.0	-	5	18	10	129	163

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 15: Lint quality and associated 2017 scheduled discounts for varieties at the Surry Co.- Pond 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
PHY 330 W3FE	38	4.5	33.7	83.6	51-2	0	60	15	-145	-70
DP 1646 B2XF	41	4.6	30.7	84.6	51-1	0	30	25	-145	-90
PHY 312 WRF	38	4.2	31.8	84.2	51-1	10	50	25	-145	-60
DP 1725 B2XF	37	4.4	31.5	82.5	51-1	0	50	5	-145	-90
DP 1639 B2XF	38	5.0	31.7	85.3	51-2	-230	50	35	-145	-290
NG 3522 B2XF	38	4.9	29.5	83.1	51-1	0	10	15	-145	-120
PHY 450 W3FE	37	4.7	31.7	85.2	51-2	0	50	35	-145	-60
ST 5020 GLT	40	4.6	33.0	85.8	51-2	0	60	35	-145	-50
NG 4601 B2XF	38	4.8	32.0	84.6	51-1	0	50	25	-145	-70
ST 5517 GLTP	39	4.5	33.0	82.8	51-2	0	60	5	-145	-80
ST 4848 GLT	40	4.8	32.4	85.2	51-1	0	50	35	-145	-60
Mean	39	4.6	31.9	84.3	-	-20	47	23	-145	-95

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.

Table 16: Lint quality and associated 2017 scheduled discounts for varieties at the Sussex Co.- Lowe 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
PHY 330 W3FE	37	4.0	31.2	84.5	41-2	10	50	25	260	345
DP 1646 B2XF	40	4.0	30.5	82.7	51-1	10	30	5	-145	-100
PHY 312 WRF	39	4.4	29.5	84.0	51-1	0	10	25	-145	-110
DP 1725 B2XF	38	3.8	31.9	83.9	51-1	10	50	15	-145	-70
DP 1639 B2XF	38	4.3	29.4	85.8	41-1	0	10	35	270	315
NG 3522 B2XF	37	4.1	28.2	82.5	51-1	10	0	5	-145	-130
PHY 450 W3FE	37	4.7	32.2	84.8	52-2	0	50	25	-390	-315
ST 5020 GLT	40	4.3	32.1	84.5	51-1	0	50	25	-145	-70
NG 4601 B2XF	38	4.8	32.5	83.4	51-1	0	50	15	-145	-80
ST 5517 GLTP	38	3.6	31.3	82.1	41-2	0	50	5	270	325
ST 4848 GLT	38	4.5	31.7	83.5	51-1	0	50	15	-145	-80
Mean	38	4.2	31.0	83.8	-	4	36	18	-55	3

[¶] 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 2017 CC Loan Schedule of Premiums and Discounts for Upland and ELS Cotton.