

2018 Cotton Variety Testing Results

The University of Arizona
Cooperative Extension

Introduction

Variety selection is one of the most important decisions a grower will make contributing to the success of a cotton crop. It is critical, that a grower have as much information as possible in order to make an informed decision regarding variety selection.

In an effort to help supply reliable variety performance information, the University of Arizona conducts a statewide Upland cotton variety testing program. This program consists of a few different types of trials. The first is a small plot evaluation of commercially available varieties along with experimental varieties and is conducted in 3 locations across Arizona including; Yuma, Maricopa, and Safford. This testing program is called the University of Arizona Upland Cotton Advanced Strains Testing Program.

Another type of University sponsored trial is a large plot, replicated strip trial conducted on grower cooperator farms in a wide variety of locations across Arizona. These large plot strip trials consist of replicated plots extending the full length of the irrigation run at each location. This program is titled the University of Arizona Upland Cotton Variety Testing Program (UCVT). Seven locations across the state were conducted in 2018.

Testing of commercial and experimental ELS (Pima) varieties were also conducted in 3 locations in 2018. Two of the locations were small plot trials, while the third was a strip trial conducted on a grower cooperator field.

The following three tables contain location, planting date, early and mid-season data collection dates, final irrigation date, initial defoliation date, harvest date, soil type, and irrigation technique, for each of the trials conducted across Arizona in 2018. The remainder of the tables in this publication contain yield and fiber quality data for each of the locations. Statistical analysis for all parameters is also presented at the bottom of each table. Also included are early season data of stand count and vigor ratings along with mid-season data including plant height and nodes above white flower (NAWF) at mid - peak bloom. For each location a figure plotting lint yield as a function of fiber premium/discount is presented. The vertical line in the figure represents the average of the trial for fiber premium and the horizontal line represents the trial average for yield. Any varieties falling in the upper right quadrant performed better than average for both lint yield and fiber quality at that location.

If you have any questions regarding these trials or this publication please direct them to Dr. Randy Norton, Regional Extension Specialist and Director of the Safford Ag Center at rnorton@cals.arizona.edu.

The work performed over the course of the 2018 cotton season to produce the results contained in this booklet was funded in part by Cotton Incorporated through the Arizona Cotton Growers Association and also by participating seed companies. A special Thank You is extended to the Grower-Cooperators who participate in these testing programs. This program would not be successful without them.

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Location and agronomic information for the University of Arizona Upland cotton advanced strain testing (UCAST) program, 2018.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	121	32.7184	-114.6891	19-Mar	18-May	3-Jul	8-Aug	6-Sep	18-Sep	Gadsden Clay	Furrow
Maricopa	1191	33.0618	-111.9648	30-Apr	22-May	23-Jul	4-Sep	18-Oct	28-Nov	Casa Grande Sandy Clay Loam	Furrow
Safford	2960	32.8130	-109.6786	19-Apr	13-Jun	31-Jul	5-Sep	11-Oct	6-Nov	Grabe Clay Loam	Furrow

Location and agronomic information for the University of Arizona Upland cotton variety testing (UCVT) program, 2018.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	135	32.7645	-114.5230	3-Mar	17-May	2-Jul	31-Jul	15-Aug	7-Sep	Holtville Clay	Furrow
Stanfield	1370	32.8141	-111.9584	4-Apr	23-May	17-Jul	4-Oct	30-Oct	19-Dec	Denure Sandy Loam	Subsurface Drip
Goodyear	923	33.4029	-112.3915	2-May	23-May	16-Jul	14-Sep	24-Oct	4-Dec	Gilman Loam	Flood
Queen Creek	1548	33.1686	-111.5011	18-Apr	23-May	17-Jul	5-Sep	15-Oct	15-Nov	Mohall Loam	Furrow
Marana	1851	32.4836	-111.3508	23-Apr	24-May	16-Jul	26-Aug	15-Oct	19-Nov	Grabe Silty Clay Loam	Furrow
Thatcher	2872	32.8601	-109.7724	24-Apr	13-Jun	19-Jul	11-Sep	8-Oct	24-Oct	Grabe Clay Loam	Subsurface Drip
Bonita	4416	32.3768	-109.9397	13-Apr	14-Jun	26-Jul	15-Sep	30-Oct	10-Dec	Tubac Sandy Loam	Center Pivot

Location and agronomic information for the University of Arizona ELS (Pima) cotton variety and advanced strain testing (PCAST and PCVT) program, 2018.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Maricopa	1193	33.0618	-111.9648	30-Apr	22-May	23 Jul;	4-Sep	18-Oct	28-Nov	Casa Grande Clay Loam	Furrow
Safford	2963	32.8138	-109.6802	25-Apr	12-Jun	31-Jul	5-Sep	11-Oct	5-Nov	Grabe Clay Loam	Furrow
Thatcher	2930	32.8313	-109.7439	3-Apr	12-Jun	19-Jul	6-Sep	10-Oct	19-Nov	Pima Clay	Furrow

Yield and fiber quality data for the University of Arizona Upland Cotton Advanced Strain Testing (UCAST) Program, Yuma, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Bayer	DP1948B3XF	2,462.2	a	44.6	38	4.9	34.2	1.20	82.8	3.4	\$1,364.05
NexGen	NG4936B3XF	2,334.1	ab	43.2	38	4.9	30.6	1.19	83.2	2.6	\$1,274.83
Corteva	PX3B07W3FE	2,283.5	abc	44.2	36	4.7	31.3	1.13	81.3	3.5	\$1,266.39
Bayer	DP1549B2XF	2,276.4	abc	40.6	36	4.7	31.3	1.12	81.6	3.2	\$1,256.44
Bayer	DP1845B3XF	2,275.8	abc	45.3	38	4.9	33.4	1.19	82.1	3.6	\$1,265.24
BASF	ST4550GLTP	2,253.8	abcd	46.6	37	5.2	32.8	1.15	83.2	1.5	\$1,206.05
Bayer	DP1646B2XF	2,220.9	abcde	44.2	37	4.9	29.3	1.15	81.6	3.3	\$1,229.13
Corteva	PHY350W3FE	2,196.4	abcdef	43.9	37	4.3	31.3	1.16	82.0	4.3	\$1,235.80
Corteva	PX5D28BW3FE	2,184.5	bcdef	43.3	37	4.5	32.3	1.15	82.9	4.2	\$1,227.66
Corteva	PX4A64W3FE	2,173.4	bcdef	43.4	37	4.4	32.8	1.13	82.6	4.2	\$1,220.83
BASF	BX1975GLTP	2,165.8	bcdef	44.2	37	5.2	31.1	1.14	83.1	1.9	\$1,167.56
PCG	PCG802	2,151.8	bcdefg	36.1	37	5.6	33.5	1.16	83.4	0.6	\$1,131.82
PCG	PCG801	2,141.7	bcdefgh	37.7	36	5.5	30.9	1.12	82.7	0.0	\$1,112.82
PCG	PCG811	2,130.7	bcdefghi	37.3	37	5.1	31.4	1.14	82.7	2.5	\$1,160.29
NexGen	NG5711B3XF	2,115.7	bcdefghij	41.4	37	4.9	30.0	1.14	81.1	3.3	\$1,167.64
Bayer	DP1725B2XF	2,110.5	bcdefghij	43.3	36	4.8	29.8	1.12	81.0	2.3	\$1,147.49
Corteva	PHY320W3FE	2,082.4	bcdefghijk	42.7	36	4.2	31.0	1.13	82.2	3.6	\$1,158.52
PCG	PCG810	2,059.2	bcdefghijkl	38.7	35	4.7	29.5	1.09	81.8	1.6	\$1,105.34
Corteva	PHY580W3FE	2,051.3	cdefghijkl	44.5	36	4.7	30.2	1.10	81.8	3.3	\$1,134.44
NexGen	NG3729B2XF	1,979.3	defghijklm	42.8	37	5.2	30.1	1.14	81.8	1.4	\$1,056.31
BASF	ST5471GLTP	1,976.8	efghijklm	40.1	35	5.1	30.1	1.10	81.0	0.3	\$1,034.97
BASF	BX1974GLTP	1,976.3	efghijklm	45.1	37	4.9	29.9	1.13	82.2	2.7	\$1,081.57
NexGen	AMX1817B3XF	1,975.2	efghijklm	43.7	37	4.9	27.7	1.14	81.3	1.6	\$1,058.44
Bayer	DP1835B3XF	1,925.3	fghijklmn	44.4	36	5.1	29.3	1.12	80.9	0.9	\$1,020.45
PCG	PCG807	1,883.8	ghijklmno	39.0	35	4.8	28.2	1.08	82.1	2.2	\$1,021.06
BASF	FM1621GL	1,870.9	hijklmnop	45.7	37	5.2	31.1	1.14	82.7	1.0	\$991.03
PCG	PCG713PB	1,856.1	ijklmnop	36.8	37	5.1	30.7	1.14	82.2	2.0	\$1,000.67
PCG	PCG805	1,850.9	jklmnopq	36.4	38	5.0	34.4	1.19	82.2	2.9	\$1,016.53
BASF	ST4946GLB2	1,830.0	klmnopq	40.8	37	5.0	31.8	1.14	82.5	2.4	\$994.85
PCG	PCG808	1,825.5	klmnopq	38.8	35	4.6	29.5	1.08	81.0	1.3	\$972.96
PCG	PCG809	1,809.6	klmnopq	39.0	35	4.8	29.1	1.09	81.8	1.3	\$964.36
NexGen	AMX1816B3XF	1,798.0	lmnopq	37.6	36	3.8	26.6	1.12	80.6	2.2	\$976.28
PCG	PCG806	1,797.1	lmnopq	37.0	36	5.2	33.8	1.11	83.4	0.6	\$945.73
Corteva	PHY444WRF	1,759.7	mnopq	41.4	38	4.0	31.4	1.18	82.6	4.5	\$994.30
Corteva	PX4A69W3FE	1,711.5	mnopq	43.9	37	4.1	32.4	1.15	82.1	4.2	\$961.46
Corteva	PX3C06W3FE	1,696.2	nopq	42.3	36	4.7	28.2	1.13	81.0	3.6	\$942.47
BASF	BX1972GLTP	1,685.9	nopq	39.0	37	4.6	30.6	1.14	82.1	4.0	\$943.94
BASF	FM2398GLTP	1,623.1	opq	43.7	37	5.5	31.0	1.16	82.2	0.2	\$848.40
BASF	FM1830GLT	1,602.8	pqr	41.2	37	5.1	30.3	1.13	82.4	1.8	\$862.67
Bayer	DP1820B3XF	1,573.9	qr	42.9	38	5.1	33.0	1.20	82.8	2.4	\$857.47
BASF	BX1976GLTP	1,333.7	rs	42.5	36	5.3	30.2	1.10	81.6	-0.1	\$692.28
NexGen	AMX1818B3XF	1,223.9	s	36.3	37	4.7	32.0	1.15	82.2	3.1	\$679.03
NexGen	AMX1819B3XF	1,156.4	s	36.4	36	4.0	29.2	1.13	81.7	3.7	\$644.69
Average		1,936.2		41.4	36	4.8	30.8	1.14	82.1	2.4	\$1,053.63
LSD§		277.0		2.3	1	0.3	2.1	0.03	1.3	2.0	\$161.66
OSL†		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV‡		10.1		3.8	2.0	4.8	4.7	2.0	1.1	58.0	10.8

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation (α=0.05).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

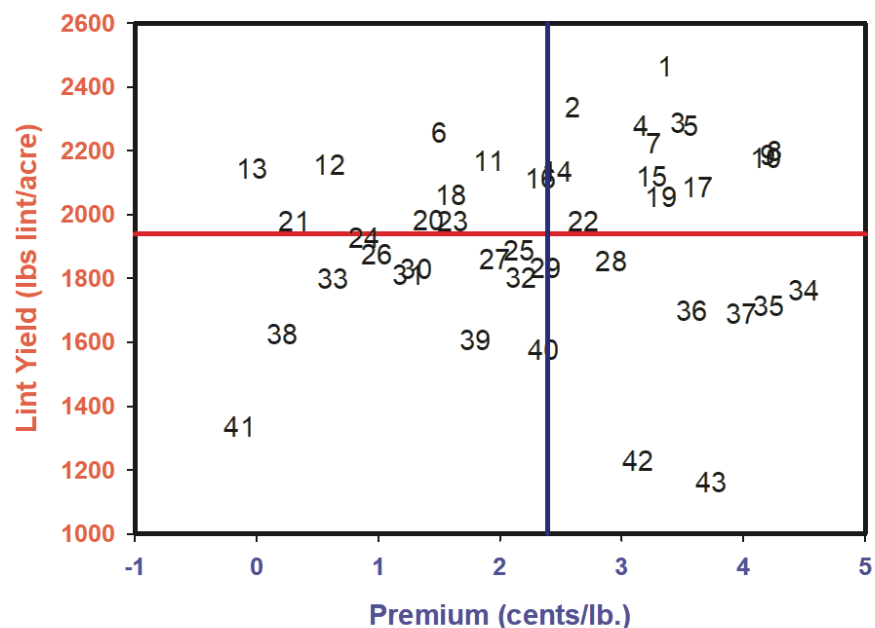
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data (left) and lint yield (y-axis) versus fiber quality premium/discount (x-axis) (right) for the UCAST trial, Yuma, AZ, 2018.

Variety	Plant Population (plants/foot)	Plant Vigor Ratings (0-9 L-H)	Plant Height (inches)	Nodes Above White Flowers (NAWF)
AMX1816B3XF	4.1	8.5	37.1	3.7
AMX1817B3XF	3.7	7.5	29.2	3.3
AMX1818B3XF	2.9	7.0	35.8	3.7
AMX1819B3XF	3.9	8.3	36.5	3.9
BX1972GLTP	3.5	7.3	31.8	3.3
BX1974GLTP	4.0	7.5	36.8	4.6
BX1975GLTP	2.9	6.8	34.9	4.3
BX1976GLTP	3.0	6.5	31.2	4.1
DP1549B2XF	3.3	7.0	39.7	3.8
DP1646B2XF	3.3	7.3	41.4	3.8
DP1725B2XF	3.7	7.5	37.5	3.5
DP1820B3XF	3.5	8.3	36.8	3.1
DP1835B3XF	4.0	7.5	39.3	4.3
DP1845B3XF	3.6	7.0	33.2	3.5
DP1948B3XF	3.7	7.8	37.9	4.1
FM1830GLT	3.4	7.0	34.4	3.3
FM1921GL	3.9	7.5	33.5	3.9
FM2398GLTP	3.1	6.8	29.4	4.7
NG3729B2XF	3.3	7.5	37.5	3.9
NG4936B3XF	2.0	4.8	39.0	4.6
NG5711B3XF	3.6	7.8	39.3	5.4
PCG713PB	4.2	8.0	33.3	4.1
PCG801	4.1	7.8	35.1	4.3
PCG802	3.9	8.0	39.9	4.7
PCG805	4.0	8.3	37.0	4.3
PCG806	4.4	8.0	34.0	4.8
PCG807	3.8	8.5	38.6	4.8
PCG808	4.1	8.3	32.2	4.1
PCG809	3.9	8.0	35.0	4.9
PCG810	3.8	8.0	38.7	5.1
PCG811	3.6	8.3	35.3	4.5
PHY320W3FE	4.5	8.0	33.1	3.7
PHY350W3FE	4.2	8.3	33.3	3.1
PHY444WRF	3.5	8.3	37.3	3.5
PHY580W3FE	4.5	8.5	41.3	3.9
PX3B07W3FE	4.4	8.5	33.9	3.8
PX3C06W3FE	4.5	8.3	34.9	4.4
PX4A64W3FE	3.8	7.5	37.4	3.3
PX4A69W3FE	3.7	8.0	38.2	4.3
PX5D28BW3FE	4.8	8.8	37.0	3.5
ST4550GLTP	3.8	7.5	36.8	3.8
ST4946GLB2	3.9	8.5	30.7	2.9
ST5471GLTP	3.4	7.8	39.7	3.7
Means	3.8	7.7	35.9	4.0



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|---------------|----------------|----------------|
| 1 DP1948B3XF | 16 DP1725B2XF | 31 PCG809 |
| 2 NG4936B3XF | 17 PHY320W3FE | 32 AMX1816B3XF |
| 3 PX3B07W3FE | 18 PCG810 | 33 PCG806 |
| 4 DP1549B2XF | 19 PHY580W3FE | 34 PHY444WRF |
| 5 DP1845B3XF | 20 NG3729B2XF | 35 PX4A69W3FE |
| 6 ST4550GLTP | 21 ST5471GLTP | 36 PX3C06W3FE |
| 7 DP1646B2XF | 22 BX1974GLTP | 37 BX1972GLTP |
| 8 PHY350W3FE | 23 AMX1817B3XF | 38 FM2398GLTP |
| 9 PX5D28BW3FE | 24 DP1835B3XF | 39 FM1830GLT |
| 10 PX4A64W3FE | 25 PCG807 | 40 DP1820B3XF |
| 11 BX1975GLTP | 26 FM1621GL | 41 BX1976GLTP |
| 12 PCG802 | 27 PCG713PB | 42 AMX1818B3XF |
| 13 PCG801 | 28 PCG805 | 43 AMX1819B3XF |
| 14 PCG811 | 29 ST4946GLB2 | |
| 15 NG5711B3XF | 30 PCG808 | |

Yield and fiber quality data for the University of Arizona Upland Cotton Advanced Strain Testing (UCAST) Program, Maricopa, AZ,
2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Bayer	DP1948B3XF	2,850.6	a*	44.4	40	3.9	35.5	1.26	82.2	4.6	\$1,613.09
NexGen	NG5711B3XF	2,809.0	ab	42.6	39	4.4	33.9	1.20	81.9	4.5	\$1,587.45
Bayer	DP1845B3XF	2,803.1	ab	45.5	39	4.2	34.4	1.23	82.0	4.5	\$1,583.70
NexGen	NG3729B2XF	2,778.3	abc	40.9	38	4.4	33.3	1.19	82.3	4.5	\$1,569.11
Bayer	DP1549B2XF	2,759.5	abcd	41.1	38	4.2	35.1	1.19	81.6	4.5	\$1,558.05
Corteva	PX3B07W3FE	2,589.2	bcde	43.6	39	4.1	37.4	1.20	83.9	4.8	\$1,469.33
Corteva	PHY320W3FE	2,581.1	bcdef	42.3	38	3.6	35.3	1.20	84.0	2.4	\$1,406.63
Corteva	PHY580W3FE	2,571.1	bcdef	43.0	38	4.2	34.9	1.17	83.3	4.6	\$1,455.90
BASF	ST4946GLB2	2,557.4	cdef	40.8	37	4.5	35.3	1.16	83.5	4.5	\$1,445.58
Corteva	PHY350W3FE	2,552.2	cdefg	41.5	38	3.9	35.8	1.19	82.3	4.0	\$1,430.01
Bayer	DP1835B3XF	2,524.6	defgh	44.5	38	4.5	34.4	1.18	82.2	4.5	\$1,425.98
Bayer	DP1725B2XF	2,477.3	efghi	44.3	38	4.2	34.2	1.18	81.7	4.5	\$1,399.36
Corteva	PX5D28BW3FE	2,451.7	efghij	41.5	38	3.8	37.1	1.19	83.5	4.1	\$1,373.94
NexGen	AMX1816B3XF	2,381.4	efghijk	39.0	38	4.0	32.5	1.20	81.1	4.3	\$1,339.94
Corteva	PX4A64W3FE	2,352.8	efghijk	43.0	37	3.6	36.5	1.16	82.4	3.2	\$1,298.55
BASF	ST4550GLTP	2,346.5	efghijkl	43.3	38	4.4	36.0	1.18	83.4	4.6	\$1,328.06
Bayer	17R818B3XF	2,336.3	fghijkl	41.8	38	4.7	35.2	1.19	83.6	4.0	\$1,308.06
Bayer	DP1044B2RF	2,311.7	ghijklm	39.8	38	4.6	32.9	1.18	82.8	4.4	\$1,304.48
Bayer	17R821B3XF	2,300.5	hijklmn	42.6	37	4.2	32.6	1.17	83.4	4.5	\$1,299.14
BASF	FM2398GLTP	2,287.5	hijklmn	42.3	38	4.2	33.2	1.19	82.2	4.5	\$1,293.00
BASF	FM1830GLT	2,274.1	ijklmno	41.5	39	4.3	36.5	1.22	82.7	4.6	\$1,286.32
Bayer	17R829B3XF	2,265.9	ijklmno	44.3	36	4.6	31.8	1.13	80.7	3.4	\$1,255.53
NexGen	AMX1817B3XF	2,261.1	ijklmno	42.9	38	4.3	33.3	1.20	81.9	4.5	\$1,278.06
BASF	ST5471GLTP	2,207.3	jklmnop	40.1	37	4.4	33.8	1.17	82.2	4.4	\$1,244.63
BASF	BX1974GLTP	2,197.8	klmnop	44.1	38	4.3	33.9	1.20	82.7	4.5	\$1,242.43
NexGen	AMX1819B3XF	2,190.6	klmnop	38.6	38	3.9	32.4	1.18	83.1	4.4	\$1,236.54
Corteva	PX4A69W3FE	2,176.1	klmnop	44.1	38	3.8	35.6	1.19	82.6	4.6	\$1,230.72
Bayer	DP1916B3XF	2,171.6	klmnop	42.8	38	4.8	35.9	1.18	83.1	4.0	\$1,216.23
IST	BRS293	2,132.2	lmnopq	37.2	37	4.3	36.4	1.16	82.8	4.5	\$1,205.46
Corteva	PHY444WRF	2,119.2	lmnopq	41.8	40	3.8	33.9	1.24	83.1	4.7	\$1,200.86
NexGen	AMX1818B3XF	2,107.9	lmnopq	40.8	39	4.1	36.3	1.21	83.0	4.7	\$1,194.33
IST	BRS335	2,088.6	mnpqrs	38.9	38	4.0	33.1	1.18	81.6	4.3	\$1,177.03
NexGen	NG4936B3XF	2,084.7	mnpqrs	39.7	39	4.2	33.1	1.22	83.2	4.6	\$1,180.08
IST	BRS286	2,060.7	nopqrs	38.3	37	4.4	35.3	1.15	82.2	4.2	\$1,158.42
BASF	BX1976GLTP	2,039.3	opqr	41.2	38	4.4	36.3	1.19	83.5	4.7	\$1,155.30
BASF	BX1975GLTP	1,997.3	pqrst	43.2	38	4.7	34.2	1.18	83.6	4.6	\$1,130.72
Bayer	DP1820B3XF	1,924.2	qrst	41.4	41	4.2	37.3	1.26	83.1	4.6	\$1,089.90
BASF	FM1621GL	1,858.7	qrst	44.3	38	4.7	35.3	1.19	82.8	4.0	\$1,037.77
Bayer	DP1646B2XF	1,845.2	rst	42.1	40	4.2	33.6	1.24	81.7	4.4	\$1,040.35
Corteva	PX3C06W3FE	1,767.1	st	41.5	37	4.1	33.5	1.15	80.8	4.1	\$992.45
BASF	BX1972GLTP	1,747.8	t	38.6	37	4.0	33.9	1.17	81.2	4.0	\$980.20
Average		2,296.1		41.8	38	4.2	34.6	1.19	82.5	4.3	\$1,293.24
LSD§		245.7		1.8	1	0.4	1.9	0.03	1.8	0.8	\$142.64
OSL†		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0186	0.0003	<0.0001
CV‡		7.6		3.2	1.8	6.2	4.0	1.8	1.6	13.7	7.9

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

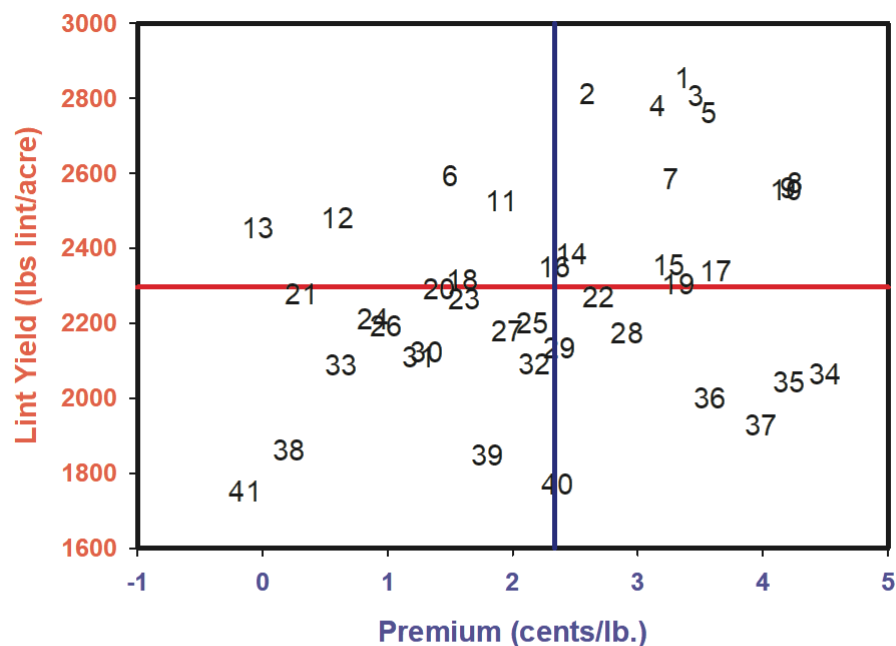
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data (left) and lint yield (y-axis) versus fiber quality premium/discount (x-axis) (right) for the UCAST trial, Maricopa, AZ, 2018.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Node Above White Flower (NAWF)
17R818B3XF	2.9	5.5	35.9	4.8
17R821B3XF	3.3	6.8	35.2	5.3
17R829B3XF	1.8	5.8	37.2	5.1
AMX1816B3XF	4.9	8.0	33.2	4.9
AMX1817B3XF	3.9	7.0	34.4	4.1
AMX1818B3XF	3.7	7.5	36.5	5.4
AMX1819B3XF	4.2	8.3	35.7	4.8
BRS286	3.2	6.5	34.4	5.1
BRS293	3.9	7.5	39.1	5.0
BRS335	3.3	6.8	36.9	5.3
BX1972GLTP	3.3	6.5	30.8	4.2
BX1974GLTP	3.3	6.8	34.0	4.6
BX1975GLTP	3.3	7.0	35.2	4.4
BX1976GLTP	1.9	5.0	31.2	3.3
D1948B3XF	4.3	7.8	35.6	5.4
DP1044B2RF	3.5	8.0	36.8	5.4
DP1549B2XF	3.2	7.0	40.6	6.1
DP1646B2XF	3.0	5.5	34.1	5.0
DP1725B2XF	2.9	5.8	34.3	5.8
DP1820B3XF	3.1	5.5	34.9	4.9
DP1835B3XF	3.5	6.3	37.0	5.5
DP1845B3XF	2.9	5.3	30.7	4.6
DP1916B3XF	3.0	7.0	36.9	4.6
FM1830GLT	4.3	8.3	33.9	4.8
FM1921GL	3.6	8.0	32.3	5.6
FM2398GLTP	3.6	6.8	30.6	2.7
NG3729B2XF	4.1	8.0	37.0	5.2
NG4936B3XF	2.4	5.0	34.6	4.6
NG5711B3XF	2.8	6.8	37.1	6.3
PHY320W3FE	4.6	8.8	29.5	4.5
PHY350W3FE	3.5	8.0	33.9	4.5
PHY444WRF	3.6	8.8	37.7	5.8
PHY580W3FE	2.4	7.3	33.0	4.6
PX3B07W3FE	3.3	7.3	33.3	4.4
PX3C06W3FE	1.3	3.5	29.1	3.5
PX4A64W3FE	3.7	7.8	36.8	4.7
PX4A69W3FE	3.8	7.8	34.4	5.4
PX5D28BW3FE	3.6	7.0	37.7	5.6
ST4550GLTP	2.9	7.0	34.7	4.5
ST4946GLB2	4.3	8.8	32.6	4.0
ST5471GLTP	4.1	8.5	32.9	4.8
Means	3.4	7.0	34.7	4.9



- | | | |
|----------------|----------------|----------------|
| 1 DP1948B3XF | 15 PX4A64W3FE | 29 BRS293 |
| 2 NG5711B3XF | 16 ST4550GLTP | 30 PHY444WRF |
| 3 DP1845B3XF | 17 17R818B3XF | 31 AMX1818B3XF |
| 4 NG3729B2XF | 18 DP1044B2RF | 32 BRS335 |
| 5 DP1549B2XF | 19 17R821B3XF | 33 NG4936B3XF |
| 6 PX3B07W3FE | 20 FM2398GLTP | 34 BRS286 |
| 7 PHY320W3FE | 21 FM1830GLT | 35 BX1976GLTP |
| 8 PHY580W3FE | 22 17R829B3XF | 36 BX1975GLTP |
| 9 ST4946GLB2 | 23 AMX1817B3XF | 37 DP1820B3XF |
| 10 PHY350W3FE | 24 ST5471GLTP | 38 FM1621GL |
| 11 DP1835B3XF | 25 BX1974GLTP | 39 DP1646B2XF |
| 12 DP1725B2XF | 26 AMX1819B3XF | 40 PX3C06W3FE |
| 13 PX5D28BW3FE | 27 PX4A69W3FE | 41 BX1972GLTP |
| 14 AMX1816B3XF | 28 DP1916B3XF | |

Yield and fiber quality data for the University of Arizona Upland Cotton Advanced Strain Testing (UCAST) Program, Safford, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Bayer	DP1549B2XF	2,059.8	a*	41.7	37	4.9	33.2	1.14	82.3	2.8	\$1,129.59
Corteva	PHY444WRF	1,606.3	b	42.1	39	4.3	32.2	1.21	83.2	4.5	\$907.00
Corteva	PHY580W3FE	1,582.1	bc	43.9	35	5.1	30.9	1.10	82.1	0.3	\$827.07
Corteva	PX5D28BW3FE	1,564.8	bc	42.4	36	4.5	34.0	1.12	82.3	4.1	\$877.93
NexGen	AMX1816B3XF	1,551.3	bc	39.0	37	4.5	29.2	1.14	81.6	3.3	\$856.65
Corteva	PX3B07W3FE	1,527.1	bcd	43.3	36	4.8	31.6	1.12	80.5	3.3	\$843.74
Corteva	PHY320W3FE	1,525.0	bcd	41.1	37	4.7	31.6	1.14	83.9	4.3	\$857.75
IST	BRS286	1,464.1	bcde	38.6	34	5.1	30.8	1.07	81.2	-1.1	\$745.17
Corteva	PX4A64W3FE	1,464.0	bcde	42.6	36	4.8	32.5	1.11	82.9	2.7	\$801.99
Bayer	DP1044B2XF	1,449.2	bcde	39.5	36	5.2	30.5	1.12	81.8	0.8	\$767.02
Corteva	PHY350W3FE	1,446.4	bcde	41.2	37	5.2	31.9	1.13	83.0	1.7	\$776.38
Corteva	PX4A69W3FE	1,441.4	bcdef	43.7	37	4.4	31.8	1.14	83.1	4.3	\$811.19
Bayer	DP1845B3XF	1,432.8	bcdef	42.8	40	4.7	33.9	1.24	82.0	4.5	\$809.18
BASF	FM1830GLT	1,406.7	bcdefg	42.5	37	5.3	32.9	1.17	82.9	0.5	\$738.06
IST	BRS335	1,377.2	cdefg	38.4	36	4.9	31.2	1.13	81.1	2.0	\$744.03
BASF	FM2574GLT	1,370.3	cdefgh	44.6	38	5.2	32.3	1.19	83.0	2.0	\$735.58
BASF	FM2498GLT	1,316.1	defghi	41.7	37	5.8	32.9	1.16	83.3	0.6	\$691.59
Corteva	PX3C06W3FE	1,310.4	defghi	41.9	36	5.2	29.5	1.11	81.7	0.1	\$682.84
IST	BRS293	1,260.4	efghij	37.8	37	5.3	34.0	1.15	82.8	1.0	\$666.56
BASF	BX1972GLTP	1,251.3	efghijk	38.7	37	4.7	31.1	1.14	81.9	4.1	\$701.90
NexGen	NG5711B3XF	1,237.9	efghijk	42.2	38	5.2	32.2	1.18	83.6	1.0	\$656.32
BASF	BX1976GLTP	1,218.2	fghijkl	41.5	37	5.5	33.8	1.17	83.6	0.6	\$640.77
Bayer	DP1948B3XF	1,188.2	ghijklm	43.0	39	4.9	33.8	1.23	83.4	3.4	\$658.81
NexGen	AMX1819B3XF	1,148.7	hijklmn	38.8	37	5.0	30.9	1.15	82.8	2.6	\$626.99
NexGen	NG3729B2XF	1,147.2	hijklmn	40.7	37	5.2	29.7	1.15	82.4	1.3	\$610.98
NexGen	AMX1817B3XF	1,127.2	ijklmn	43.1	36	5.2	30.4	1.11	80.7	-0.7	\$578.36
Bayer	17R821B3XF	1,067.0	jklmno	43.1	36	5.1	30.7	1.12	83.5	1.4	\$570.75
BASF	FM1621GL	1,030.5	klmno	44.5	37	5.4	32.4	1.14	82.8	-0.3	\$533.09
BASF	BX1975GLTP	1,026.9	klmno	41.8	37	5.4	30.0	1.14	82.3	0.1	\$534.91
BASF	FM2398GLTP	1,007.3	lmno	44.4	37	5.7	32.0	1.14	82.1	0.0	\$524.38
NexGen	AMX1818B3XF	977.5	mno	39.7	37	5.1	33.7	1.15	83.4	2.1	\$528.57
Bayer	DP1646B2XF	935.4	no	41.3	38	5.0	30.1	1.20	82.6	2.4	\$508.74
BASF	ST4550GLTP	885.3	o	44.6	37	5.2	33.1	1.16	83.4	2.1	\$478.47
Average		1,315.3		41.7	37	5.0	31.8	1.15	82.5	1.9	\$709.77
LSD§		226.5		1.5	1	2.0	1.5	0.04	1.6	1.6	\$124.86
OSL†		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	<0.0001
CV‡		12.3		2.0	2.5	3.4	3.4	2.4	1.4	60.3	12.5

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

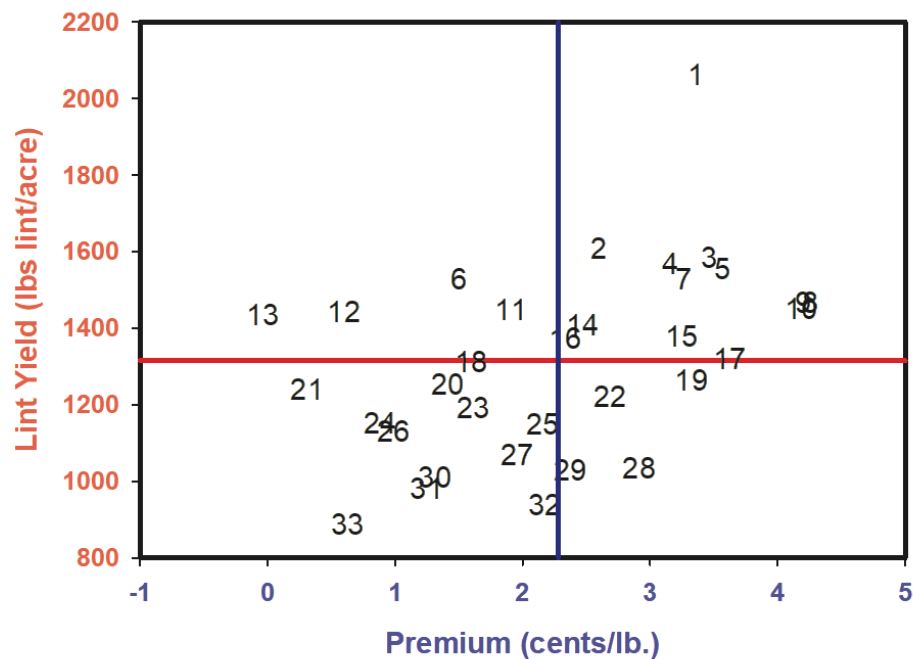
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data (left) and lint yield (y-axis) versus fiber quality premium/discount (x-axis) (right) for the UCAST trial, Safford, AZ, 2018.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flowers (NAWF)
17R821B3XF	1.2	3.0	30.4	4.1
AMX1816B3XF	3.3	5.8	28.5	2.9
AMX1817B3XF	2.1	3.8	26.9	4.0
AMX1818B3XF	2.0	4.3	29.1	3.5
AMX1819B3XF	2.2	5.0	32.9	4.0
BRS286	2.6	5.3	29.1	4.1
BRS293	3.2	6.0	31.9	4.6
BRS335	3.1	6.3	26.7	3.1
BX1972GLTP	1.7	3.8	25.4	3.4
BX1975GLTP	1.2	3.5	29.8	3.5
BX1976GLTP	2.2	4.3	30.5	4.1
DP1044B2XF	1.7	4.3	32.4	5.0
DP1549B2XF	2.1	5.3	36.1	6.0
DP1646B2XF	1.7	3.3	31.3	4.9
DP1845B3XF	1.8	3.5	28.6	4.8
DP1948B3XF	1.3	3.3	31.5	6.6
FM1621GL	1.2	2.5	27.9	4.6
FM1830GLT	2.1	4.3	30.6	4.6
FM2398GLTP	1.6	4.5	26.7	4.3
FM2498GLT	1.4	3.3	29.7	3.5
FM2574GLT	1.4	3.3	32.1	4.7
NG3729B2XF	1.9	4.3	30.7	2.7
NG5711B3XF	2.0	4.3	32.4	5.3
PHY320W3FE	3.3	6.8	30.1	4.0
PHY350W3FE	2.9	5.5	27.4	3.0
PHY444WRF	3.1	6.3	31.6	3.9
PHY580W3FE	2.2	4.8	30.1	4.1
PX3B07W3FE	2.9	5.5	24.3	2.5
PX3C06W3FE	1.5	3.8	28.7	3.4
PX4A64W3FE	2.3	5.0	29.0	3.4
PX4A69W3FE	2.3	6.0	30.0	3.5
PX5D28BW3FE	3.1	5.8	31.3	3.6
ST4550GLTP	1.3	3.0	27.3	3.6
Means	2.1	4.5	29.7	4.0



1 DP1549B2XF	12 PX4A69W3FE	23 DP1948B3XF
2 PHY444WRF	13 DP1845B3XF	24 AMX1819B3XF
3 PHY580W3FE	14 FM1830GLT	25 NG3729B2XF
4 PX5D28BW3FE	15 BRS335	26 AMX1817B3XF
5 AMX1816B3XF	16 FM2574GLT	27 17R821B3XF
6 PX3B07W3FE	17 FM2498GLT	28 FM1621GL
7 PHY320W3FE	18 PX3C06W3FE	29 BX1975GLTP
8 BRS286	19 BRS293	30 FM2398GLTP
9 PX4A64W3FE	20 BX1972GLTP	31 AMX1818B3XF
10 DP1044B2XF	21 NG5711B3XF	32 DP1646B2XF
11 PHY350W3FE	22 BX1976GLTP	33 ST4550GLTP

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Yuma, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Micronaire	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade			(g/tex)	Length (in.)					
NexGen	NG3729B2XF	2,084.8	a	35.9	21	36	5.3	27.4	1.12	2	80.4	1.0	\$1,102.66	
Bayer	DP1612B2XF	1,956.5	a	35.8	21	35	5.2	29.9	1.10	2	81.7	0.5	\$1,027.24	
Bayer	DP1820B3XF	1,884.2	ab	33.6	21	36	4.7	30.0	1.12	3	80.2	3.3	\$1,041.66	
NexGen	NG3406B2XF	1,858.8	ab	35.0	11	35	4.9	28.8	1.09	2	81.1	2.0	\$1,001.43	
DynaGro	DG3385B2XF	1,835.0	abc	35.8	11	36	4.8	28.7	1.12	2	81.7	2.4	\$1,000.07	
BASF	FM2498GLT	1,828.7	abc	35.1	11	35	5.2	27.7	1.09	2	80.5	-1.0	\$930.44	
BASF	FM1830GLT	1,772.4	abc	36.2	11	36	5.1	29.6	1.13	1	80.2	1.4	\$946.02	
IST	BRS286	1,604.1	bcd	34.8	21	34	5.2	28.2	1.06	2	79.5	-2.1	\$793.29	
DynaGro	DG3109B2XF	1,557.1	bcd	33.5	21	36	5.1	30.2	1.12	3	80.8	1.6	\$834.33	
IST	BRS293	1,555.3	bcd	32.8	11	36	4.1	29.6	1.13	1	79.1	4.1	\$850.89	
Corteva	PHY340W3FE	1,520.6	cd	35.9	21	36	4.9	31.0	1.13	2	81.6	3.6	\$853.49	
PCG	PSC713	1,351.1	c	33.2	21	36	5.3	28.7	1.11	2	80.5	-0.4	\$668.22	
IST	BRS335	1,302.2	c	31.7	21	34	4.9	27.4	1.06	2	79.8	-0.4	\$669.18	
Corteva	PHY300W3FE	1,282.8	c	34.5	21	37	4.5	31.4	1.14	2	80.1	4.7	\$726.03	
Average		1,659.8		34.5	---	36	4.9	29.2	1.11	---	80.5	1.5	\$888.93	
LSD§		334.8		1.4	---	2	0.3	1.8	NS	---	1.8	2.8	\$180.19	
OSL†		0.0002		<0.0001	---	0.0037	<0.0001	0.0011	0.0888	---	0.1396	0.0006	0.0002	
CV‡		12.4		2.6	---	2.2	4.0	3.7	3.5	---	1.4	113.2	12.1	

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

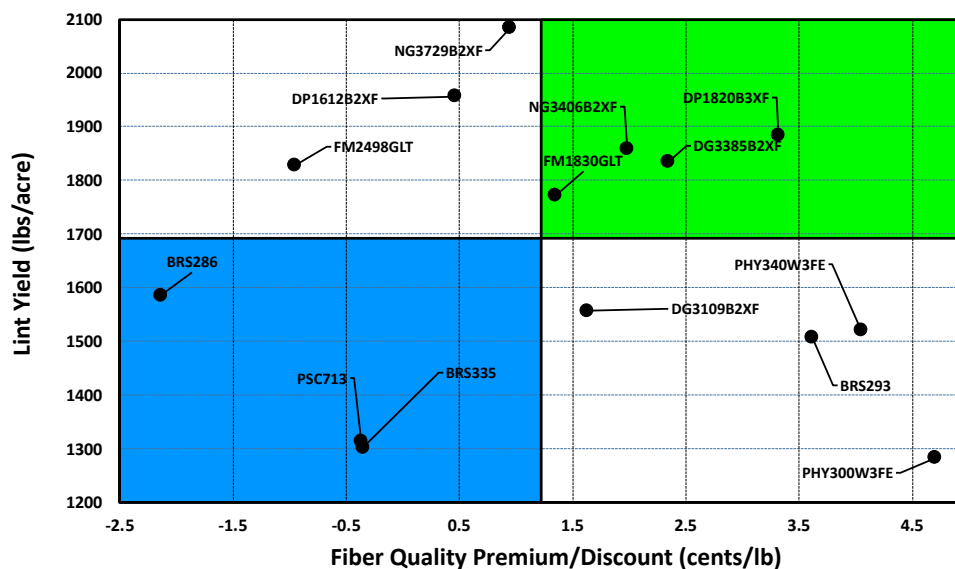
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Yuma, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
BRS286	2.3	9.0	29.0	4.1
BRS293	2.2	9.0	24.4	5.3
BRS335	2.3	8.0	23.2	4.7
DG3109B2XF	2.1	6.0	30.9	6.3
DG3385B2XF	2.4	9.0	25.1	5.1
DP1612B2XF	1.9	9.0	29.5	6.2
DP1820B3XF	2.4	8.0	27.5	6.9
FM1830GLT	2.5	8.3	29.7	6.0
FM2498GLT	1.9	8.0	33.5	6.5
NG3406B2XF	2.2	8.7	30.6	5.4
NG3729B2XF	1.8	9.0	32.6	6.1
PHY300W3FE	2.5	8.7	28.2	6.4
PHY340W3FE	2.4	8.7	33.7	6.7
PSC713	2.7	7.0	25.3	3.7
Mean	2.3	8.3	28.8	5.7



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Yuma, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Stanfield, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Micronaire	Strength			Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade			(g/tex)	Length (in.)	Leaf Grade			
Bayer	DP1549B2XF	1,510.7	a*	34.7	31	37	4.7	32.0	1.14	2	81.7	3.8	\$845.09
Corteva	PHY320W3FE	1,387.4	ab	32.5	31	38	4.4	33.1	1.19	3	81.8	4.7	\$785.90
NexGen	NG3729B2XF	1,386.6	ab	34.3	31	37	4.7	32.3	1.16	3	81.7	3.7	\$772.97
DynaGro	DG3605B2XF	1,339.4	abc	34.2	31	37	4.8	30.5	1.16	3	81.3	2.9	\$743.42
Bayer	DP1646B2XF	1,303.1	bc	33.4	31	37	4.7	31.2	1.15	3	80.4	3.0	\$737.16
DynaGro	DG3385B2XF	1,292.1	bcd	31.3	31	37	4.5	31.5	1.14	2	80.7	4.0	\$702.66
BASF	ST4949GLT	1,181.3	cd	34.6	31	37	4.3	31.1	1.15	3	81.2	2.6	\$654.20
BASF	ST5471GLT	1,120.2	def	32.5	31	36	4.7	32.6	1.12	3	81.6	3.0	\$614.36
Corteva	PHY444WRF	1,060.5	ef	33.6	31	37	4.5	31.3	1.17	2	80.8	4.0	\$593.55
NexGen	NG5711B2XF	1,033.6	f	32.7	21	38	4.3	32.0	1.21	2	81.4	5.3	\$587.01
PCG	PSC713	789.4	g	29.2	31	38	4.4	33.2	1.19	3	81.4	4.7	\$447.99
Average		1,218.6		33.0	---	37	4.6	31.9	1.16	---	81.3	3.8	\$680.39
LSD§		168.2		1.1	---	NS	NS	NS	NS	---	NS	NS	\$96.96
OSL†		<0.0001		<0.0001	---	0.7532	0.3547	0.4733	0.8222	---	0.8192	0.3482	<0.0001
CV‡		8.1		2.0	---	4.1	6.1	4.6	4.8	---	1.3	35.8	8.4

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

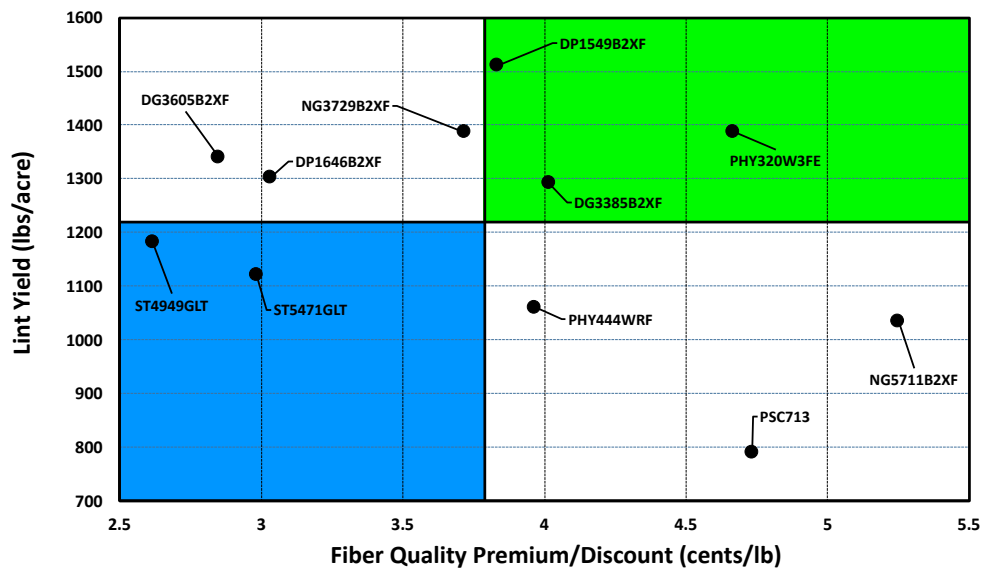
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Stanfield, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF	2.4	6.0	26.7	5.9
DG3605B2XF	1.5	4.3	30.2	6.7
DP1549B2XF	3.2	7.3	28.9	7.6
DP1646B2XF	2.2	6.0	30.0	7.3
NG3729B2XF	3.1	6.3	31.2	5.9
NG5711B2XF	2.8	4.0	30.8	8.1
PHY320W3FE	3.0	6.3	27.7	7.4
PHY444WRF	2.3	6.0	30.6	6.7
PSC713	2.9	8.0	30.0	7.5
ST4949GLT	3.0	6.3	30.3	6.2
ST5471GLT	2.6	5.7	26.2	6.5
Mean	2.6	6.0	29.3	6.9



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Stanfield, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Goodyear, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade		Micronaire	(g/tex)	Length (in.)				
Corteva	PHY430W3FE	1,723.1	a*	33.1	31	36	5.2	31.3	1.10	2	81.2	1.2	\$917.18
Bayer	DP1725B2XF	1,714.1	a*	36.2	31	38	5.1	32.5	1.16	2	81.2	3.9	\$958.67
Bayer	DP1549B2XF	1,692.8	ab	31.2	31	37	5.0	33.0	1.15	3	82.5	3.5	\$939.71
Corteva	PHY480W3FE	1,614.0	abc	31.5	31	36	5.2	32.1	1.11	3	81.3	1.0	\$856.43
NexGen	NG4601B2XF	1,600.0	abc	32.6	31	38	5.1	34.0	1.18	3	82.9	2.2	\$867.62
NexGen	NG3729B2XF	1,519.9	abc	32.5	31	36	5.0	30.1	1.12	3	79.9	1.8	\$818.26
BASF	ST5122GLT	1,461.8	bc	30.5	31	36	5.1	33.2	1.11	2	80.5	1.3	\$778.43
DynaGro	DG3385B2XF	1,444.2	c	30.3	31	36	5.2	30.2	1.12	2	78.8	-0.4	\$745.91
DynaGro	DG3109B2XF	1,386.0	c	29.9	31	38	5.0	30.8	1.18	3	81.7	3.3	\$766.42
Bayer	DP1646B2XF	1,123.2	d	31.7	31	35	5.2	30.7	1.10	3	82.0	0.9	\$593.42
BASF	FM2498GLT	1,031.6	d	31.0	31	37	4.5	31.8	1.15	2	79.9	4.1	\$577.80
Average		1,482.8		31.9	---	36	5.0	31.8	1.13	---	81.1	2.1	\$801.81
LSD§		235.1		3.0	---	NS	NS	NS	NS	---	NS	NS	\$157.30
OSL†		0.0007		0.003	---	0.2027	0.3642	0.1360	0.3570	---	0.1863	0.1724	0.0032
CV‡		7.1		4.2	---	3.1	4.8	4.0	3.3	---	1.6	72.2	8.8

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

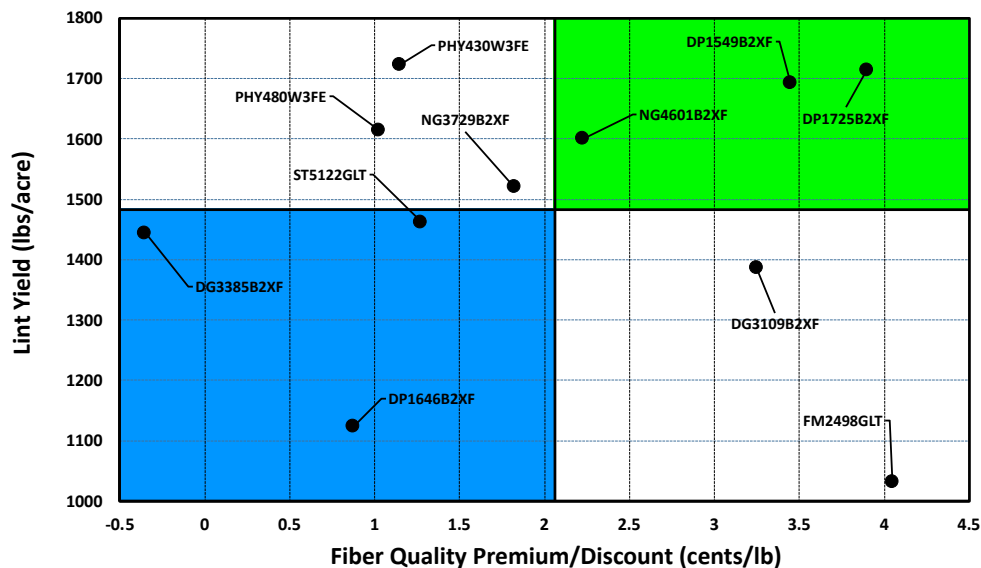
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Goodyear, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3109B2XF	1.3	4.3	22.9	6.7
DG3385B2XF	2.7	7.3	28.3	8.7
DP1646B2XF	1.6	6.0	27.2	6.3
DP1725B2XF	1.3	5.7	26.5	6.4
FM2498GLT	1.8	5.7	23.6	6.5
NG3729B2XF	1.9	6.7	27.2	6.3
NG4601B2XF	1.2	4.0	25.8	8.7
PHY430W3FE	3.0	7.3	28.9	8.4
PHY480W3FE	2.4	6.7	26.5	9.7
ST5122GLT	2.9	7.7	27.5	8.5
Mean	2.0	6.1	26.4	7.6



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Goodyear, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Queen Creek, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade		Micronaire	(g/tex)	Length (in.)				
Corteva	PHY350W3FE	1,465.9	a*	35.1	41	36	5.1	30.4	1.13	2	81.3	0.3	\$766.83
BASF	ST5818GLT	1,349.9	b	34.9	31	35	5.2	30.6	1.10	1	80.3	-0.2	\$698.88
Bayer	DP1549B2XF	1,348.7	b	33.6	41	36	4.9	30.7	1.11	2	80.1	1.4	\$719.66
NexGen	NG5711B3XF	1,204.9	c	33.6	31	37	4.8	30.6	1.16	2	80.0	3.1	\$663.52
Bayer	DP1646B2XF	1,192.8	c	34.5	41	37	5.0	29.7	1.16	1	80.4	0.5	\$626.63
BASF	FM2498GLT	1,183.4	cd	33.5	31	37	5.3	31.2	1.14	1	81.4	1.2	\$629.19
Corteva	PHY340W3FE	1,146.6	cd	34.1	41	36	5.2	30.1	1.12	1	80.9	-1.5	\$579.33
DynaGro	DG3605B2XF	1,115.9	de	33.0	41	37	4.8	29.5	1.15	2	79.5	2.3	\$606.14
NexGen	NG4777B2XF	1,069.8	e	31.0	31	37	4.7	31.6	1.13	1	80.7	4.0	\$599.00
DynaGro	DG3544B2XF	996.0	f	33.8	41	37	5.1	33.3	1.17	2	82.7	1.3	\$531.35
Average		1,207.4		33.7	---	36	5.0	30.8	1.14	---	80.7	1.2	\$642.05
LSD§		68.8		1.7	---	1	0.2	1.4	0.04	---	1.0	2.1	\$45.62
OSL†		<0.0001		0.0032	---	0.0031	0.0003	0.0003	0.0011	---	<0.0001	0.0007	<0.0001
CV‡		3.9		3.5	---	1.8	3.2	3.0	2.7	---	0.8	118.8	4.9

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

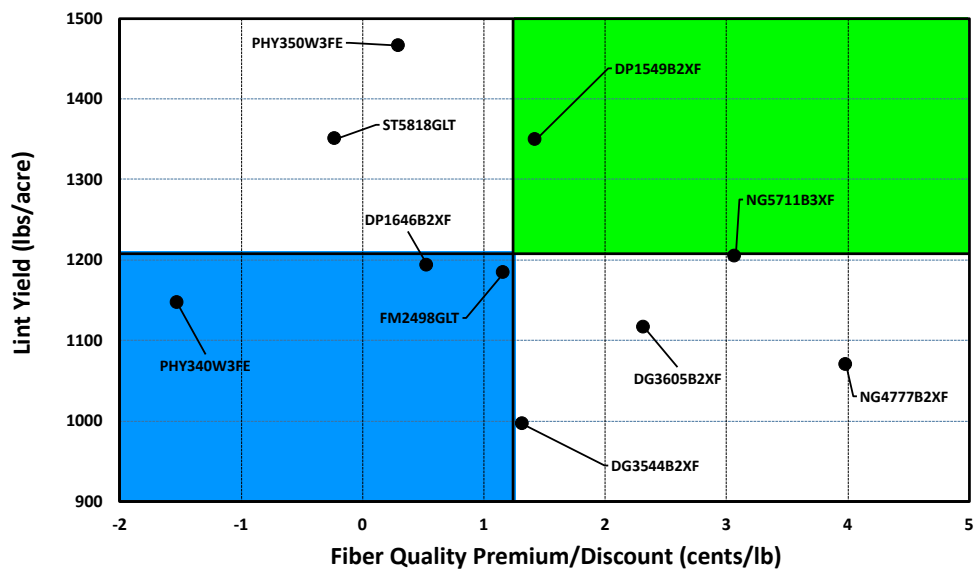
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Queen Creek, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3544B2XF	2.5	6.0	28.0	6.6
DG3605B2XF	2.5	5.7	28.6	5.9
DP1549B2XF	2.2	6.0	31.4	7.2
DP1646B2XF	2.0	6.7	33.8	5.8
FM2498GLT	1.6	6.0	28.6	6.3
NG4777B2XF	1.7	6.3	31.2	6.1
NG5711B3XF	2.3	5.7	30.2	7.3
PHY340W3FE	1.8	7.3	28.2	5.9
PHY350W3FE	1.4	5.7	27.7	6.0
ST5818GLT	2.2	5.3	30.9	6.0
Mean	2.0	6.1	29.9	6.3



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Queen Creek, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Marana, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade		Micronaire	(g/tex)	Length (in.)				
Corteva	PHY480W3FE	1,566.1	a*	35.6	31	37	4.8	30.7	1.16	1	81.5	2.3	\$849.42
Bayer	DP1725B2XF	1,556.7	a*	36.4	31	37	4.8	29.4	1.15	1	80.4	2.6	\$845.62
Bayer	DP1522B2XF	1,447.2	ab	33.4	41	37	5.2	28.9	1.14	2	81.5	-0.5	\$744.45
Corteva	PHY350W3FE	1,444.9	ab	32.7	31	38	4.7	30.7	1.17	1	81.3	4.0	\$809.57
BASF	ST5122GLT	1,435.9	abc	33.4	31	36	5.0	28.7	1.13	1	79.2	2.6	\$784.48
NexGen	NG3729B2XF	1,341.0	bc	32.7	41	37	5.2	29.2	1.16	2	81.3	-0.3	\$692.44
BASF	ST5471GLTP	1,278.5	bc	33.9	41	36	5.0	30.2	1.12	2	80.2	0.7	\$673.88
NexGen	NG4601B2XF	1,278.3	bc	35.3	41	37	5.1	31.2	1.15	1	80.8	1.0	\$679.13
DynaGro	DG3605B2XF	1,247.4	c	34.7	31	38	4.4	29.8	1.19	1	79.7	3.4	\$690.18
DynaGro	DG3544B2XF	945.5	d	31.9	41	38	5.0	33.5	1.19	1	83.0	2.1	\$511.60
Average		1,354.2		34.0	---	37	4.9	30.2	1.16	---	80.9	1.8	\$728.08
LSD§		196.1		1.8	---	NS	0.3	1.8	NS	---	1.8	2.8	\$95.48
OSL†		0.0001		0.0005	---	0.0725	0.0003	0.0011	0.2011	---	0.0192	0.0379	<0.0001
CV‡		8.4		3.0	---	2.3	3.5	3.5	3.6	---	1.3	89.9	7.6

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

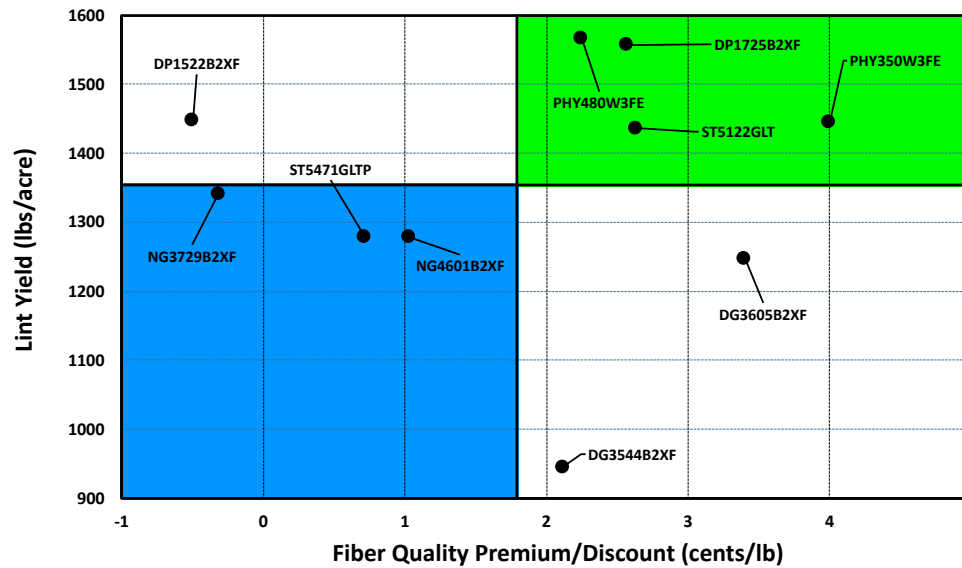
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Marana, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3544B2XF	1.2	4.3	35.4	7.9
DG3605B2XF	1.2	3.7	34.9	7.5
DP1522B2XF	2.1	6.7	35.2	7.3
DP1725B2XF	1.9	5.7	31.2	7.4
NG3729B2XF	2.5	6.7	32.3	7.0
NG4601B2XF	1.3	4.3	33.0	7.2
PHY480W3FE	1.8	6.7	32.5	8.3
PX3A99W3FE	1.8	6.0	35.3	7.5
ST5122GLT	1.3	5.3	33.4	7.3
ST5471GLTP	1.7	4.7	34.4	7.8
Mean	1.7	5.4	33.8	7.5



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Marana, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Thatcher, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade		Micronaire	(g/tex)	Length (in.)				
Bayer	DP1549B2XF	1,988.2	a*	35.4	31	34	5.1	28.8	1.06	2	79.2	-2.2	\$990.31
Bayer	DP1845B3XF	1,947.8	ab	37.1	31	36	4.9	30.1	1.14	3	80.7	1.3	\$1,037.71
BASF	FM2574GLT	1,844.5	b	36.3	31	37	5.4	31.6	1.15	2	80.9	0.2	\$962.68
Corteva	PHY430W3FE	1,650.7	c	34.0	31	34	5.0	29.7	1.06	3	80.9	0.5	\$864.41
BASF	FM1888GL	1,649.7	c	35.5	31	37	5.2	31.8	1.16	2	80.5	1.0	\$874.43
NexGen	NG3729B2XF	1,599.7	cd	33.5	41	36	5.4	29.2	1.11	3	81.5	-1.6	\$806.22
Corteva	PHY320W3FE	1,587.5	cd	32.7	31	35	5.2	30.0	1.09	2	82.0	-0.2	\$822.38
DynaGro	DG3109B2XF	1,582.6	cd	31.0	41	36	5.1	30.7	1.12	4	82.2	-0.1	\$822.38
BASF	FM2498GLT	1,569.3	cd	31.7	31	36	5.3	30.0	1.13	2	81.0	0.8	\$829.69
NexGen	NG3306B2RF	1,547.7	cd	30.9	31	37	4.9	31.1	1.14	2	82.4	3.6	\$859.89
DynaGro	DG3385B2XF	1,502.9	d	32.1	31	35	5.0	29.2	1.11	2	82.0	0.8	\$793.91
PCG	PCG713	1,357.0	e	31.9	31	35	5.2	29.7	1.10	2	81.1	0.3	\$709.45
Average		1,652.3		33.5	---	36	5.1	30.1	1.11	---	81.2	0.4	\$864.46
LSD§		140.9		2.6	---	1	0.2	1.5	0.06	---	1.2	NS	\$81.64
OSL†		<0.0001		0.0002	---	0.0011	0.0034	0.0086	0.0378	---	0.0011	0.0907	<0.0001
CV‡		5		4.5	---	2.2	2.8	3.0	3.0	---	0.9	485.1	5.6

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

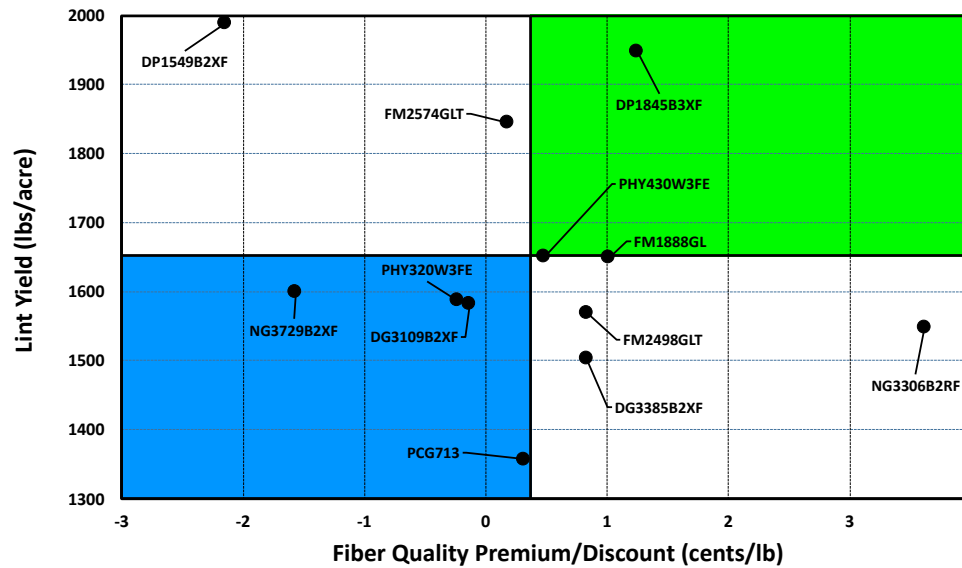
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Thatcher, AZ, 2018

Variety	Plant		Plant Height (inches)	Nodes Above
	Population (plants/foot)	Plant Vigor Rating (0-9 L-H)		White Flower (NAWF)
DG3109B2XF	2.7	7.0	24.9	5.5
DG3385B2XF	4.1	7.7	25.5	3.9
DP1549B2XF	3.9	8.0	27.9	5.1
DP1845B3XF	5.1	8.0	26.2	4.8
FM2498GLT	3.5	7.7	26.4	3.9
FM2574GLT	4.2	7.7	27.9	4.7
NG3306B2RF	3.4	8.0	28.4	4.7
NG3729B2XF	4.1	8.0	27.5	3.7
PCG713	2.6	7.0	23.3	4.5
PHY320W3FE	5.0	8.7	24.8	5.1
PHY430W3FE	4.8	8.3	24.3	3.9
Mean	3.9	7.8	26.1	4.5



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Thatcher, AZ, 2018.

Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Bonita, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Micronaire	Strength		Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade			(g/tex)	Length (in.)				
BASF	FM2498GLT	1,570.2	a*	37.2	31	36	5.4	29.0	1.10	3	79.9	-1.3	\$795.80
DynaGro	DG3385B2XF	1,394.8	b	36.8	31	36	4.8	28.3	1.12	3	82.0	3.5	\$773.72
Corteva	PHY340W3FE	1,393.7	b	39.4	31	36	4.9	29.6	1.11	2	80.7	3.2	\$769.02
BASF	FM1830GLT	1,391.9	b	38.0	31	37	5.1	31.2	1.16	2	80.7	2.3	\$755.45
NexGen	NG3406B2XF	1,360.7	b	38.0	31	37	4.8	28.5	1.14	2	81.4	4.2	\$764.69
Bayer	DP1820B3XF	1,346.5	b	38.3	31	37	4.9	29.6	1.17	3	80.4	3.8	\$751.00
Corteva	PHY300W3FE	1,239.1	c	38.9	31	36	4.9	28.3	1.12	3	79.7	2.1	\$670.45
NexGen	NG3306B2RF	1,222.6	c	37.5	31	37	4.7	30.8	1.14	2	80.5	4.2	\$686.99
Bayer	DP1612B2XF	1,079.4	d	34.1	41	36	5.0	29.8	1.13	3	81.2	2.0	\$582.83
DynaGro	DG3109B2XF	993.0	e	36.0	41	37	4.8	30.4	1.14	3	82.5	3.3	\$548.82
Average		1,299.2		37.4	---	36	4.9	29.5	1.13	---	80.9	2.7	\$709.88
LSD§		79.6		2.4	---	1	0.3	1.7	NS	---	NS	1.9	\$33.70
OSL†		<0.0001		0.02	---	0.0236	0.0139	0.0302	0.0738	---	0.3675	0.0027	<0.0001
CV‡		2.7		2.8	---	1.3	2.6	2.6	2.7	---	1.4	30.4	2.1

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

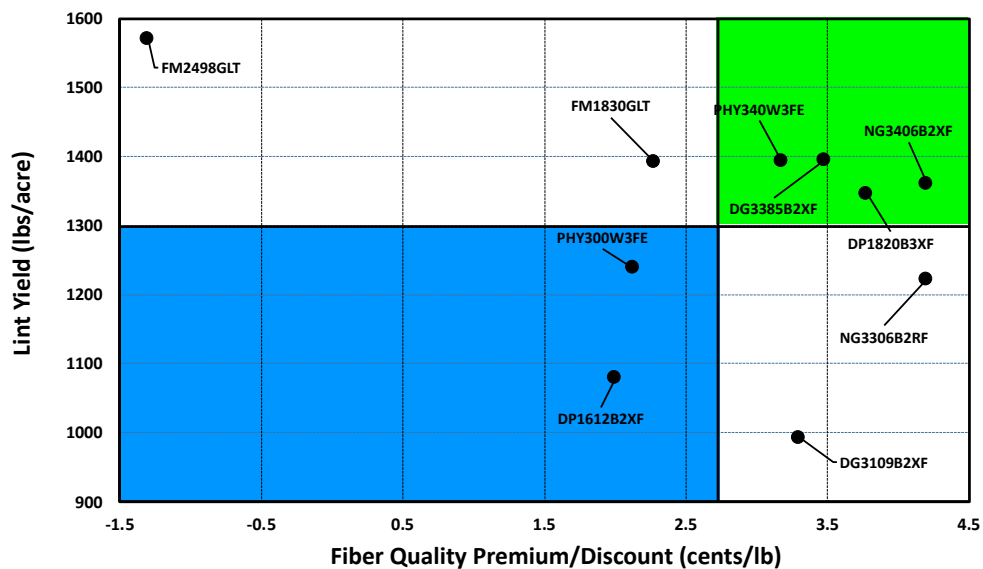
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, Bonita, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3109B2XF	1.4	4.0	20.7	5.5
DG3385B2XF	1.2	4.5	24.1	5.9
DP1612B2XF	1.4	5.0	22.4	6.3
DP1820B3XF	1.3	5.5	25.4	6.4
FM1830GLT	2.0	6.5	23.1	5.6
FM2498GLT	1.4	5.5	26.6	5.7
NG3306B2RF	1.3	4.5	22.2	6.1
NG3406B2XF	1.2	4.5	26.0	7.0
PHY300W3FE	1.2	5.0	23.7	6.7
PHY340W3FE	1.0	5.0	23.9	5.5
Mean	1.3	5.0	23.8	6.1



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT trial, Bonita, AZ, 2018.

Yield and fiber quality data for the University of Arizona Pima Cotton Variety Testing (PCVT) Program, Thatcher, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Staple (32nds)	Micronaire	Strength		Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint			(g/tex)	Length (in.)			
Corteva	PHY841RF	1,526.7	a	40.9	50	4.9	43.6	1.44	87.1	81.5	\$1,243.50
Corteva	PHY888RF	1,508.2	a	39.9	51	4.8	45.6	1.48	87.8	81.5	\$1,228.45
Corteva	PHY881RF	1,481.5	a	40.4	51	5.0	44.0	1.48	87.5	81.5	\$1,206.67
Bayer	DP341RF	1,432.1	ab	39.1	50	4.4	44.7	1.44	87.5	81.5	\$1,166.46
Bayer	DP359RF	1,429.3	ab	40.5	48	4.6	43.8	1.42	86.9	81.5	\$1,164.19
Bayer	DP348RF	1,287.7	b	37.6	49	4.7	45.0	1.43	87.5	81.5	\$1,048.82
Average		1,444.3		39.7	50	4.7	44.4	1.45	87.4	81.5	\$1,176.35
LSD§		155.7		1.1	2	NS	NS	0.03	0.4	---	\$126.80
OSL†		0.0754		0.0006	0.0042	0.1815	0.8048	0.0007	0.0071	---	0.0754
CV‡		4.2		1.5	1.6	5.9	4.5	0.9	0.3	---	4.2

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price + premium/discount

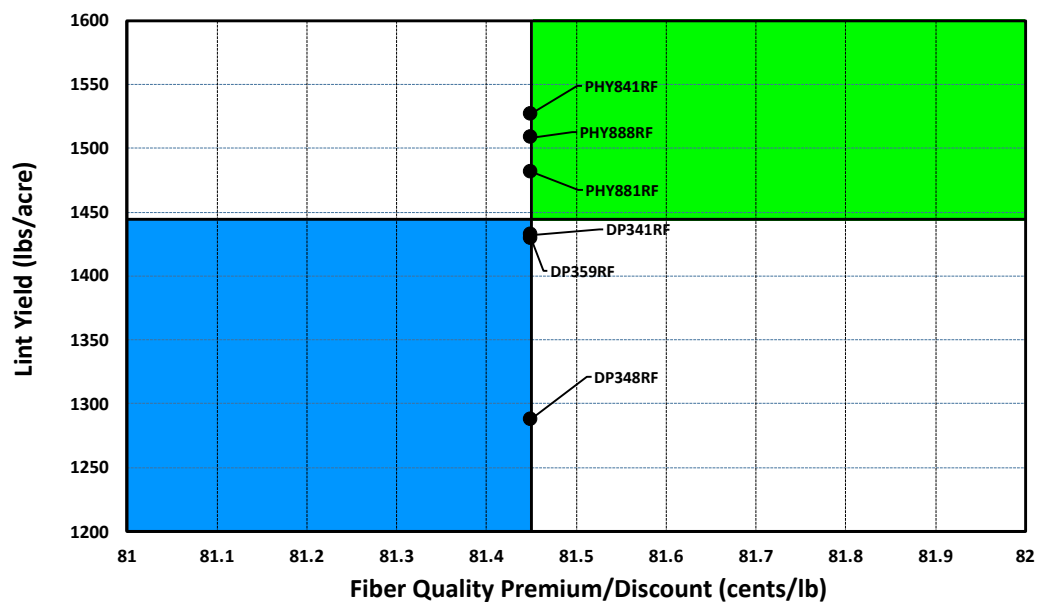
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Pima Cotton Variety Testing (PCVT) Program, Thatcher, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DP341RF	4.9	8.0	25.9	4.4
DP348RF	4.9	8.7	27.3	4.5
DP359RF	4.5	8.7	27.1	3.7
PHY841RF	4.8	8.0	24.6	4.1
PHY881RF	4.9	8.0	25.4	3.9
PHY888RF	4.5	8.0	24.9	4.0
Mean	4.7	8.2	25.8	4.1



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCVT trial, Thatcher, AZ, 2018.

Yield and fiber quality data for the University of Arizona Pima Cotton Advanced Strain Testing (PCAST) Program, Maricopa, AZ, 2018

Seed Company	Variety	Seedcotton	Yield Means				Strength			Uniformity	Premium	Value **
		Yield (lbs/acre)	Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	(g/tex)	Length (in.)	Index (%)	(cents/lb)	(\$/acre)
Bayer	MM-18-3	1,664.7	a*	35.5	1	52	5.2	44.4	1.48	87.9	81.5	\$1,355.93
Bayer	MM-18-8	1,648.3	ab	36.4	1	51	5.1	43.3	1.49	88.1	81.4	\$1,341.31
Bayer	MM-18-9	1,621.1	abc	38.6	1	50	5.3	42.5	1.44	88.3	81.5	\$1,320.38
Bayer	18R359RF	1,607.8	abcd	35.7	1	51	5.2	44.6	1.46	88.0	81.5	\$1,309.52
Bayer	MM-18-4	1,591.8	abcd	37.2	1	49	5.2	45.5	1.42	87.9	81.5	\$1,296.53
Bayer	MM-18-2	1,580.6	abcd	37.3	1	48	5.3	42.4	1.41	86.9	81.4	\$1,286.18
Bayer	MM-18-5	1,471.5	abcde	35.4	1	51	5.1	42.2	1.47	87.5	81.5	\$1,198.54
Bayer	DP341RF	1,467.8	abcde	35.3	1	51	5.0	43.5	1.48	86.8	81.5	\$1,195.53
Bayer	DP348RF	1,467.2	abcde	34.3	1	50	5.3	43.5	1.45	87.0	81.5	\$1,195.03
Corteva	PHY881RF	1,460.2	abcde	36.8	1	52	5.3	45.5	1.51	87.4	81.5	\$1,189.30
Bayer	MM-18-10	1,438.4	bcdef	35.3	1	50	5.4	43.0	1.45	87.5	81.5	\$1,171.59
Corteva	PHY841RF	1,422.2	cdef	36.5	1	51	5.2	44.5	1.46	86.6	81.5	\$1,158.35
Bayer	MM-18-6	1,406.7	def	35.5	1	52	5.0	43.3	1.49	87.9	81.5	\$1,145.72
Bayer	MM-18-1	1,363.1	ef	36.0	2	51	5.2	44.1	1.46	87.1	81.3	\$1,108.05
Corteva	PHY888RF	1,240.2	fg	36.2	1	51	5.1	44.5	1.49	88.2	81.4	\$1,009.40
Bayer	MM-18-7	1,089.6	g	40.0	1	49	5.5	40.8	1.42	86.8	81.5	\$887.46
Average		1,471.3		36.4	---	50	5.2	43.6	1.46	87.5	81.4	\$1,198.05
LSD§		210.9		1.4	---	1	0.3	NS	0.04	NS	NS	\$171.65
OSL†		<0.0001		<0.0001	---	<0.0001	0.0148	0.1314	<0.0001	0.0622	0.1981	<0.0001
CV‡		10.1		2.7	---	2.0	3.4	4.7	1.7	1.0	0.1	10.1

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price + premium/discount

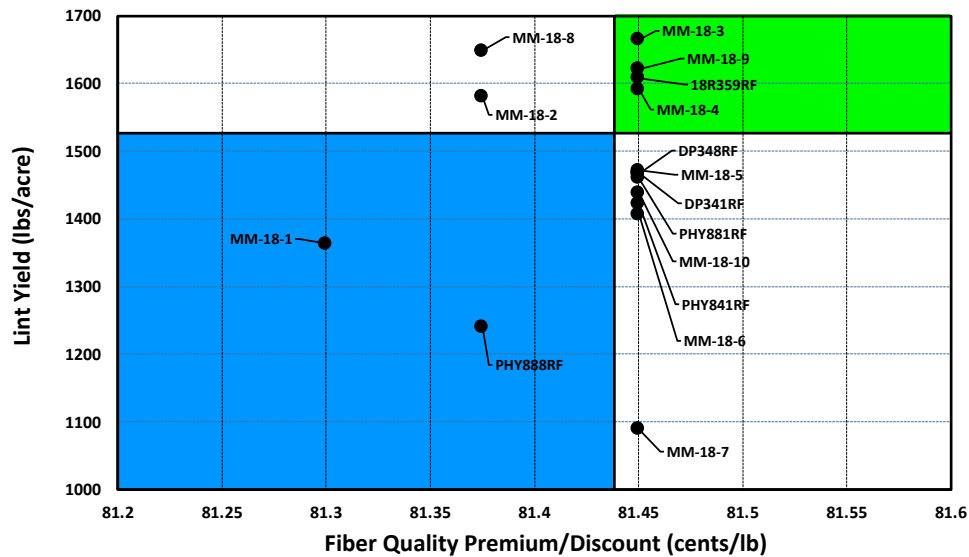
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data for the University of Arizona Pima Cotton Advanced Strain Testing (PCAST) Program, Maricopa, AZ, 2018

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Node Above White Flower (NAWF)
18R359RF	3.8	6.8	36.3	6.4
DP341RF	4.1	7.3	32.7	6.1
DP348RF	4.0	6.8	38.4	6.9
MM-18-1	4.7	7.8	35.2	7.7
MM-18-10	4.1	7.5	32.7	5.8
MM-18-2	3.7	7.0	34.9	6.5
MM-18-3	3.5	6.3	36.2	6.5
MM-18-4	3.7	6.3	38.4	7.1
MM-18-5	3.2	6.8	34.7	7.3
MM-18-6	3.9	7.3	37.2	6.9
MM-18-7	3.7	7.3	35.9	7.3
MM-18-8	3.9	7.5	38.1	6.9
MM-18-9	4.7	5.8	35.1	6.1
PHY841RF	4.3	7.8	35.8	6.5
PHY881RF	4.2	7.5	35.1	7.3
PHY888RF	3.8	7.5	36.5	6.9
Means	3.9	7.0	35.8	6.8



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCAST trial, Maricopa, AZ, 2018.

Yield and fiber quality data for the University of Arizona Pima Cotton Advanced Strain Testing (PCAST) Program, Safford, AZ, 2018

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Bayer	MS-18-9	1,989.9	a*	43.9	2	51	4.7	42.2	1.47	88.2	81.3	\$1,617.77
Bayer	MS-18-7	1,817.3	ab	42.3	1	49	4.9	43.0	1.42	87.5	81.4	\$1,478.85
Corteva	PHY888RF	1,806.1	abc	39.2	2	52	4.9	47.5	1.50	88.2	81.2	\$1,466.93
Corteva	PHY841RF	1,773.2	abc	40.0	1	50	5.0	45.4	1.45	87.3	81.4	\$1,443.04
Bayer	MS-18-2	1,704.9	bcd	41.6	2	50	4.7	43.5	1.44	88.3	81.3	\$1,385.78
Bayer	MS-18-1	1,700.7	bcde	38.7	1	51	4.9	45.0	1.46	88.5	81.4	\$1,384.00
Bayer	MS-18-3	1,679.7	bcde	38.8	1	52	4.5	44.9	1.49	88.5	81.5	\$1,368.12
Bayer	18R359RF	1,655.9	bcde	39.4	1	50	5.1	44.1	1.45	87.9	81.5	\$1,348.69
Corteva	PHY881RF	1,636.2	bcde	40.2	1	51	5.0	45.1	1.47	88.1	81.5	\$1,332.72
Bayer	DP341RF	1,577.1	bcdef	39.1	2	51	4.8	46.4	1.49	88.4	81.3	\$1,282.14
Bayer	DP348RF	1,552.9	cdef	38.3	1	50	4.6	44.5	1.46	88.2	81.4	\$1,263.70
Bayer	MS-18-6	1,545.6	cdef	39.6	1	50	5.1	46.2	1.44	88.0	81.5	\$1,258.91
Bayer	MS-18-4	1,474.4	def	40.5	1	49	5.1	46.5	1.42	87.9	81.4	\$1,199.59
Bayer	MS-18-8	1,464.7	def	41.7	1	51	5.2	45.3	1.48	87.0	81.4	\$1,191.94
Bayer	MS-18-5	1,441.8	ef	39.7	1	52	4.4	45.6	1.49	88.2	81.4	\$1,173.33
Bayer	MS-18-10	1,370.9	f	40.1	1	50	4.8	46.7	1.45	87.5	81.4	\$1,115.61
Average		1,637.0		40.2	---	50	4.8	45.1	1.46	88.0	81.4	\$1,331.94
LSD§		261.4		1.6	---	2	0.4	2.9	0.04	NS	NS	\$212.52
OSL†		0.0014		<0.0001	---	0.0165	0.0037	0.0359	0.0003	0.2635	0.6136	0.0015
CV‡		11.2		2.8	---	2.4	5.6	4.5	1.7	0.9	0.2	11.2

* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation ($\alpha=0.05$).

** Value calculated from CCC loan schedule base price + premium/discount

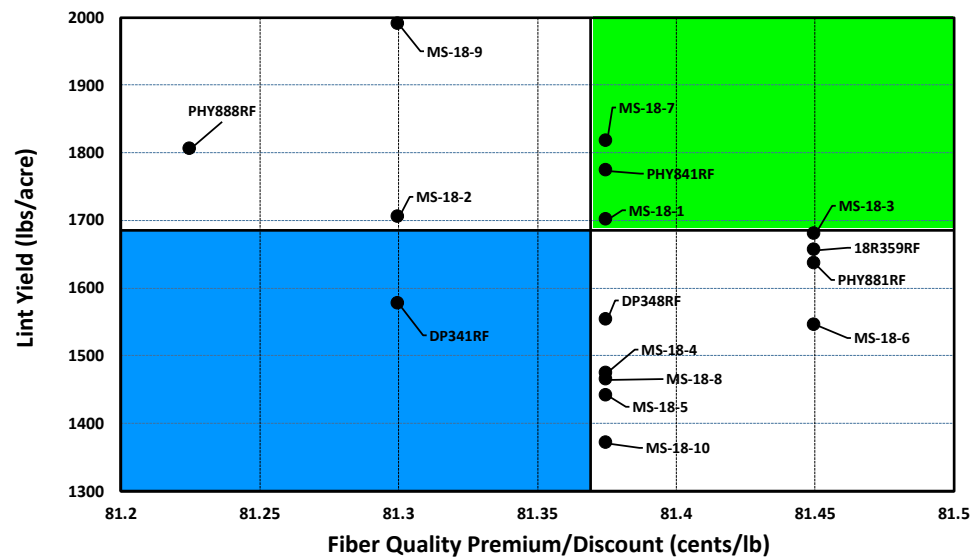
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data for the University of Arizona Pima Cotton Advanced Strain Testing (PCAST) Program, Safford, AZ, 2018

Varieties	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
18R359RF	4.0	7.3	34.4	5.1
DP341RF	4.3	7.3	30.4	4.6
DP348RF	4.2	6.8	33.1	5.3
MS-18-1	4.6	6.8	28.2	4.6
MS-18-10	4.6	7.8	28.4	3.7
MS-18-2	3.7	7.3	30.3	4.2
MS-18-3	4.4	6.8	32.2	4.5
MS-18-4	4.1	7.8	33.2	4.9
MS-18-5	4.7	7.3	30.8	4.5
MS-18-6	4.9	7.5	33.3	5.0
MS-18-7	4.3	7.0	32.3	5.3
MS-18-8	4.5	8.0	32.6	5.5
MS-18-9	4.8	7.5	34.8	5.1
PHY841RF	4.4	7.5	30.9	4.3
PHY881RF	4.3	7.8	31.7	5.0
PHY888RF	4.3	7.5	34.0	5.5
Mean	4.4	7.3	31.9	4.8



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCAST trial, Safford, AZ, 2018.