

2017

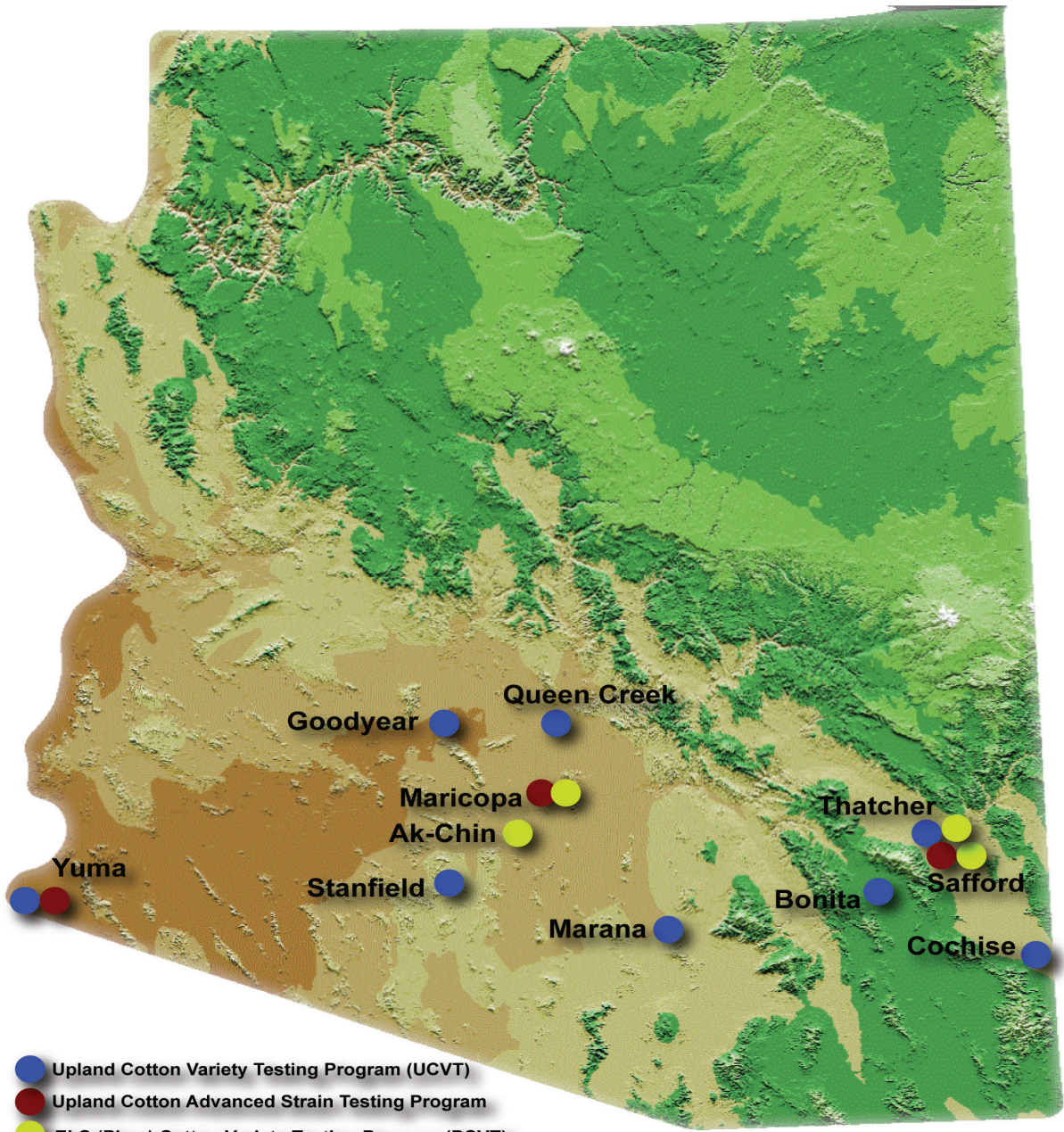
Cotton Variety Testing Results



COLLEGE OF AGRICULTURE & LIFE SCIENCES

Cooperative
Extension

Cooperative Extension
Agricultural Experiment Station
The University of Arizona, Tucson
U.S. Department of Agriculture



- Upland Cotton Variety Testing Program (UCVT)
- Upland Cotton Advanced Strain Testing Program
- ELS (Pima) Cotton Variety Testing Program (PCVT)



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). Eight locations across the state were conducted in 2017.

Testing of commercial and experimental ELS (Pima) varieties were also conducted in 4 locations in 2017. Two of the locations were small plot trials, while the other two were strip trials conducted on grower cooperator fields.

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 2017. 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 early – mid 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 2017 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 Program, 2017.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	121	32.709302	-114.705246	23-Mar	22-May	27-Jun	17-Aug	20-Sep	18-Oct	Gadsden Clay	Furrow
Maricopa	1191	33.06349	-111.97073	24-Apr	21-Jun	12-Jul	13-Sep	6-Oct	9-Nov	Casa Grande Sandy Clay Loam	Furrow
Safford	2960	32.813048	-109.678572	27-Apr	19-Jun	26-Jul	8-Sep	6-Oct	24-Oct	Grabe Clay Loam	Furrow

Location and agronomic information for the University of Arizona Upland Cotton Variety Testing Program, 2017.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	135	32.7855	-114.5409	7-Mar	23-Mar	28-Jun	16-Jul	11-Aug	4-Sep	Holtville Clay	Furrow
Stanfield	1370	32.81632	-111.95949	14-Apr	5-May	11-Jul	13-Oct	21-Oct	20-Nov	Denure Sandy Loam	Subsurface
Goodyear	923	33.402909	-112.385443	24-May	28-Jun	23-Aug	25-Sep	22-Oct	30-Nov	Gilman Loam	Flood
Queen Creek	1548	33.176096	-111.497021	12-Apr	6-May	12-Jul	5-Sep	5-Oct	8-Nov	Mohall Loam	Furrow
Marana	1851	32.49312	-111.35446	28-Apr	30-May	18-Jul	27-Aug	24-Oct	29-Nov	Grabe Silty Clay Loam	Furrow
Thatcher	2872	32.86017	-109.77234	21-Apr	1-Jun	26-Jul	15-Sep	5-Oct	27-Oct	Grabe Clay Loam	Subsurface
Bonita	4416	32.51464	-109.98801	28-Apr	19-May	22-Aug	15-Sep	10-Oct	20-Nov	Tubac Sandy Loam	Center Pivot
Cochise Co.	4007	32.01460	-109.0534	19-Apr	6-Jun	18-Jul	20-Sep	20-Oct	26-Oct	Pima-Grabe Silt Loam	Center Pivot

Location and agronomic information for the University of Arizona ELS (Pima) Cotton Variety Testing Program, 2017.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Maricopa	1193	33.065121	-111.971957	24-Apr	21-Jun	12-Jul	13-Sep	13-Oct	9-Nov	Casa Grande Clay Loam	Furrow
Ak-Chin	1253	32.9634	-111.9461	21-Mar	30-May	11-Jul	15-Sep	11-Oct	4-Jan	Trix Clay Loam	Furrow
Safford	2963	32.813834	-109.680176	28-Apr	16-Jun	31-Jul	8-Sep	5-Oct	30-Oct	Grabe Clay Loam	Furrow
Thatcher	2930	32.8313	-109.7439	7-Apr	1-Jun	26-Jul	6-Sep	10-Oct	31-Oct	Pima Clay	Furrow



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strains Testing Program, Yuma, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Dow/Phytogen	PX4A57W3FE	2,387.5	a	37.2	31	36	4.7	34.7	1.13	3	82.5	3.9	\$1,335.32
Bayer/Stoneville	ST4946GLB2	2,309.7	ab	35.3	31	37	5.0	32.9	1.14	3	82.9	3.1	\$1,271.36
Dow/Phytogen	PX3A82W3FE	2,204.0	abc	35.5	31	37	4.5	34.9	1.16	3	83.4	4.9	\$1,252.90
Monsanto/Deltapine	16R346B3XF	2,199.8	abc	35.3	31	39	4.7	35.2	1.21	3	82.2	4.8	\$1,250.03
Bayer/Stoneville	ST5122GLT	2,114.1	bcd	33.4	31	36	4.7	33.3	1.13	3	81.4	4.2	\$1,187.82
Dow/Phytogen	PX3A96W3FE	2,081.5	cde	34.5	31	37	4.4	31.1	1.14	3	81.1	4.4	\$1,173.01
Monsanto/Deltapine	DP1845B3XF	2,071.4	cde	35.6	31	40	4.4	35.3	1.23	3	81.9	4.8	\$1,176.73
Monsanto/Deltapine	DP1612B2XF	2,058.1	cdef	33.2	31	38	4.7	33.5	1.19	3	82.5	4.2	\$1,154.94
Dow/Phytogen	PX4A52W3FE	2,041.7	cdef	35.7	31	37	4.4	32.7	1.17	3	82.3	4.2	\$1,147.33
Dow/Phytogen	PHY444WRF	2,017.1	cdef	34.0	31	38	3.9	32.4	1.20	3	82.1	4.2	\$1,132.61
Dow/Phytogen	PX4A54W3FE	1,948.3	defg	35.1	31	36	4.9	31.7	1.13	3	82.4	2.4	\$1,059.21
Bayer	BX1835GLT	1,934.3	defgh	36.5	31	38	4.0	32.7	1.17	3	80.4	4.5	\$1,093.85
Dow/Phytogen	PX4A62W3FE	1,916.8	defghi	34.0	31	37	4.4	34.7	1.17	3	81.5	4.7	\$1,086.63
Monsanto/Deltapine	16R353B3XF	1,914.4	defghi	34.4	31	38	4.9	34.9	1.20	3	82.2	3.2	\$1,056.59
Monsanto/Deltapine	DP1840B3XF	1,910.2	defghij	33.3	31	38	4.5	32.2	1.17	3	80.2	4.3	\$1,075.20
Monsanto/Deltapine	DP1549B2XF	1,893.5	efghij	33.4	31	36	4.7	33.3	1.12	3	80.9	3.8	\$1,056.24
Dow/Phytogen	PHY490W3FE	1,885.8	efghijk	35.2	31	37	4.4	35.4	1.14	3	82.9	4.7	\$1,068.76
Dow/Phytogen	PX3A99W3FE	1,858.7	fghijkl	34.7	31	36	4.6	30.9	1.12	3	80.8	3.3	\$1,028.66
Monsanto/Deltapine	DP1823NRB2XF	1,807.7	ghijklm	36.7	31	38	4.6	33.4	1.18	3	82.3	4.7	\$1,025.45
Dow/Phytogen	PX5B76W3FE	1,793.6	ghijklm	33.0	31	37	4.6	32.5	1.16	3	81.6	4.6	\$1,014.37
Monsanto/Deltapine	16R246NRB2XF	1,771.9	ghijklm	33.6	31	38	5.0	35.1	1.18	3	83.3	2.8	\$970.30
Bayer	BX1839GLT	1,770.8	ghijklm	34.0	31	38	4.3	31.3	1.17	3	81.1	4.6	\$1,002.18
Bayer	BX1837GLT	1,768.9	ghijklm	34.4	31	37	4.7	32.2	1.17	3	80.9	4.1	\$992.88
Bayer	BX1834GLT	1,764.3	ghijklm	35.6	31	39	4.5	32.4	1.21	3	82.4	4.8	\$1,001.42
Bayer/FiberMax	FM1830GLT	1,740.8	hijklm	34.8	31	37	4.8	32.8	1.16	3	82.2	3.7	\$970.80
Dow/Phytogen	PX5A57W3FE	1,716.8	ijklm	34.0	31	37	4.6	34.8	1.15	3	82.0	4.1	\$962.44
Bayer	BX1838GLT	1,706.1	jklmn	33.9	31	38	4.5	31.7	1.18	3	81.3	4.6	\$964.63
Monsanto/Deltapine	DP1820B3XF	1,686.0	klmn	35.7	31	39	4.9	34.8	1.22	3	82.5	3.1	\$929.22
Monsanto/Deltapine	DP1835B3XF	1,679.7	lmn	35.8	31	38	4.8	32.2	1.17	3	81.7	3.9	\$938.36
Dow/Phytogen	PX5B73W3FE	1,676.9	lmn	33.4	31	37	4.5	32.0	1.14	3	81.5	4.4	\$945.76
Monsanto/Deltapine	DP1822XF	1,646.3	mn	33.2	31	39	4.6	34.5	1.21	3	82.6	4.2	\$924.28
Monsanto/Deltapine	DP1851B3XF	1,610.0	mno	35.6	31	37	5.0	35.4	1.17	3	82.3	3.6	\$893.90
Bayer/FiberMax	FM2574GLT	1,508.5	no	36.4	31	37	4.8	33.0	1.17	3	81.9	4.1	\$845.44
Bayer	BX1872GLTP	1,412.6	o	33.3	31	37	5.0	31.1	1.14	3	81.6	2.3	\$767.37
Average		1,872.8		34.7	---	37	4.6	33.2	1.17	---	81.9	4.0	\$1,049.34
LSD\$		205.6		2.0	---	1	0.4	1.7	0.03	---	1.2	1.5	\$117.35
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	---	<0.0001	0.0149	<0.0001
CV#		7.9		4.1	---	2.1	5.7	3.7	2.1	---	1.1	26.0	8.0

* 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

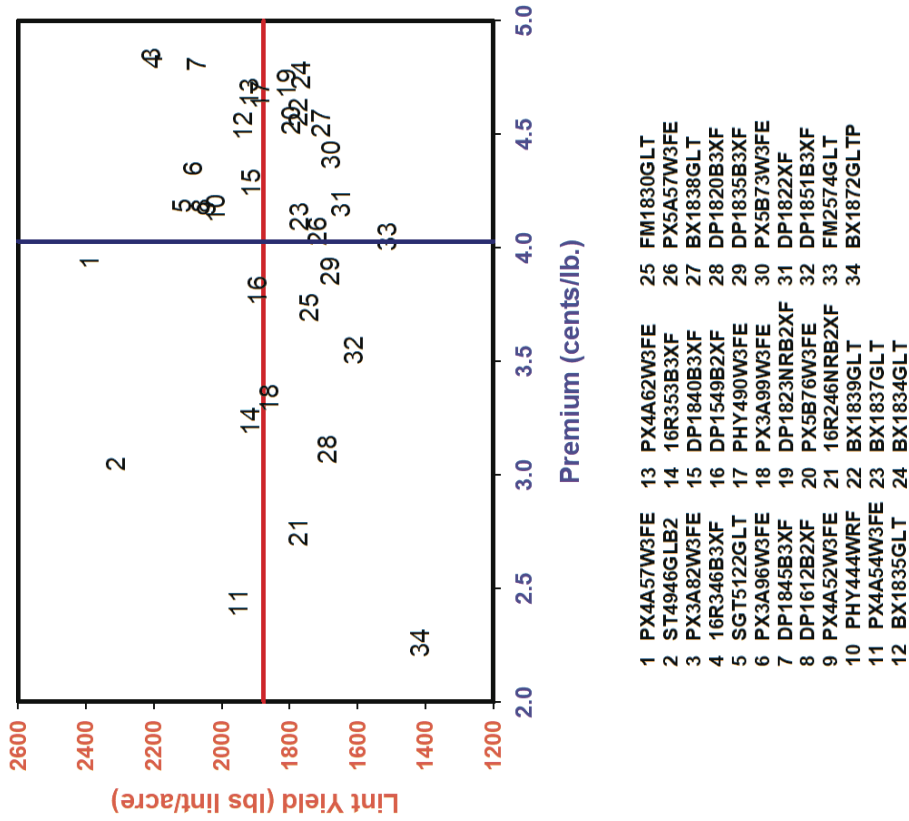
‡ Least Significant Difference

† Observed Significance Level

Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Advanced Strains Testing Program, Yuma, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
16R246NRB2XF	4.0	7.0	48.7	8.0
16R346B3XF	4.2	7.8	44.8	8.2
16R353B3XF	3.8	6.5	43.0	6.8
BX1834GLT	3.8	7.0	36.5	6.2
BX1835GLT	4.2	7.8	30.9	8.0
BX1837GLT	4.1	7.8	42.0	6.6
BX1838GLT	4.3	7.8	49.1	6.4
BX1839GLT	4.0	7.8	47.6	6.2
BX1872GLTP	3.8	7.0	44.0	6.8
DP1549B2XF	4.2	7.0	43.8	7.6
DP1612B2XF	5.1	9.0	41.7	5.6
DP1820B3XF	3.5	6.5	46.0	6.8
DP1822XF	4.3	7.8	46.8	7.4
DP1823NRB2XF	4.1	7.5	35.9	5.8
DP1835B3XF	4.1	7.0	45.4	6.4
DP1840B3XF	4.2	6.8	38.3	6.2
DP1845B3XF	4.2	7.3	35.9	5.6
DP1851B3XF	3.9	6.3	47.7	7.4
FM1830GLT	4.2	7.6	38.9	5.8
FM2574GLT	3.8	7.0	37.5	6.2
PHY444WRF	3.4	6.8	45.5	6.4
PHY490W3FE	4.5	8.0	49.4	7.0
PX3A82W3FE	3.8	6.3	47.4	5.4
PX3A96W3FE	3.9	7.0	43.5	6.6
PX3A99W3FE	4.2	7.3	40.0	5.4
PX4A52W3FE	4.3	7.5	52.4	7.0
PX4A54W3FE	4.2	7.5	41.3	6.0
PX4A57W3FE	4.4	7.8	46.6	6.4
PX4A62W3FE	4.5	7.5	39.9	6.4
PX5A57W3FE	4.1	7.5	37.1	6.8
PX5B73W3FE	4.1	6.8	48.3	7.8
PX5B76W3FE	4.1	7.5	45.0	6.8
ST4946GLB2	3.8	6.5	46.9	6.0
ST5122GLT	4.3	7.8	34.1	6.2
Mean	4.1	7.3	42.9	6.6



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the Advanced Strain location Yuma, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strains Testing Program, Maricopa, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/retex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Monsanto/Deltapine	DP1823NRB2XF	2,782.9	a	40.6	31	40	4.3	34.5	1.24	3	82.7	4.8	\$1,581.62
Bayer	BX1833GLT	2,771.2	a	36.9	31	38	4.3	34.8	1.18	3	81.5	4.8	\$1,573.01
Monsanto/Deltapine	16R346B3XF	2,679.1	ab	40.5	31	41	4.2	34.5	1.27	3	82.0	4.9	\$1,523.75
NexGen/Americot	NG5711B3XF	2,630.4	abc	38.0	31	39	4.4	33.8	1.22	3	82.1	4.8	\$1,494.33
Monsanto/Deltapine	DP1835B3XF	2,609.1	abcd	40.6	31	38	4.7	33.1	1.19	3	81.3	4.0	\$1,460.03
Bayer	BX1874GLTP	2,607.5	abcd	37.2	31	39	4.3	35.2	1.21	3	82.3	4.9	\$1,482.58
Monsanto/Deltapine	DP1845B3XF	2,604.9	abcd	39.2	31	40	3.9	33.9	1.25	3	81.0	4.9	\$1,480.91
NexGen/Americot	AMX171B2XF	2,582.6	abcd	38.6	31	38	4.7	33.7	1.19	3	82.5	4.2	\$1,451.28
Bayer/FiberMax	FM2498GLT	2,480.8	bcde	36.5	31	39	4.2	34.7	1.20	3	82.2	4.9	\$1,411.31
Bayer/FiberMax	FM1830GLT	2,475.8	bcdef	38.6	31	39	4.6	35.4	1.21	3	82.3	4.8	\$1,405.86
Bayer/Stoneville	ST5122GLT	2,470.7	bcdef	37.0	31	37	4.8	34.6	1.17	3	81.8	4.1	\$1,385.69
Monsanto/Deltapine	DP1549B2XF	2,465.6	bcdef	36.8	31	38	4.0	33.9	1.18	3	81.2	4.8	\$1,399.58
Monsanto/Deltapine	DP1044B2RF	2,449.6	bcdefg	35.7	31	38	4.7	33.4	1.18	3	82.6	4.8	\$1,390.47
Monsanto/Deltapine	16R245NRB2XF	2,434.9	cdefgh	38.8	31	40	4.4	33.7	1.26	3	82.8	4.9	\$1,384.29
NexGen/Americot	NG4601B2XF	2,427.7	cdefgh	39.5	31	38	4.5	33.6	1.19	3	81.6	4.8	\$1,377.76
Bayer	BX1873GLTP	2,416.1	cdefghi	37.1	31	39	3.9	35.2	1.21	3	82.1	4.9	\$1,375.01
Bayer	ST5471GLTP	2,379.2	defghij	35.9	31	37	4.5	34.2	1.16	3	81.7	4.7	\$1,349.26
Monsanto/Deltapine	16R246NRB2XF	2,344.3	efghijk	37.7	31	39	4.9	34.3	1.23	3	82.3	3.9	\$1,306.78
Dow/Phytogen	PX3A99W3FE	2,312.2	efghijkl	37.0	31	38	4.2	33.7	1.20	3	82.9	4.9	\$1,315.96
Dow/Phytogen	PHY490W3FE	2,247.9	fghijklm	38.7	31	38	4.2	35.3	1.20	3	82.9	4.9	\$1,278.48
Monsanto/Deltapine	DP1851B3XF	2,226.5	ghijklm	37.7	31	40	3.9	34.6	1.24	3	82.8	4.9	\$1,267.71
Dow/Phytogen	PX3A96W3FE	2,203.4	hijklmn	36.6	31	38	4.3	33.8	1.19	3	82.2	4.8	\$1,252.02
Monsanto/Deltapine	DP1840B3XF	2,193.3	ijklmno	36.6	31	40	4.1	34.1	1.23	3	80.1	4.6	\$1,240.26
Bayer	BX1831GLT	2,170.8	ijklmn	35.0	31	38	4.5	33.9	1.18	3	81.1	4.6	\$1,229.34
Dow/Phytogen	PX4A57W3FE	2,161.6	ijklmn	39.5	31	38	3.9	34.3	1.17	3	82.4	4.8	\$1,228.10
NexGen/Americot	NG5007B2XF	2,137.7	klmnop	36.7	31	39	4.5	31.1	1.20	3	82.3	4.6	\$1,208.87
Dow/Phytogen	PX4A54W3FE	2,101.0	lmnopq	37.9	31	38	4.4	35.6	1.20	3	83.7	4.9	\$1,195.55
Dow/Phytogen	PX5B76W3FE	2,093.4	lmnopq	38.1	31	39	4.2	36.3	1.21	3	82.5	4.9	\$1,190.85
Monsanto/Deltapine	16R353B3XF	2,088.9	lmnopq	39.3	31	39	3.9	35.0	1.23	3	82.5	3.8	\$1,164.71
Dow/Phytogen	PX3A82W3FE	2,059.1	mno	38.1	31	38	3.8	34.9	1.19	3	83.6	5.0	\$1,172.69
Bayer/FiberMax	FM2574GLT	2,056.3	mno	39.8	31	39	4.7	34.6	1.22	3	81.7	3.8	\$1,146.92
Dow/Phytogen	PX5A57W3FE	1,993.6	nop	36.9	31	38	3.6	34.9	1.20	3	82.3	4.3	\$1,122.93
Monsanto/Deltapine	DP1820B3XF	1,855.7	opq	39.2	31	41	4.5	35.7	1.29	3	81.7	4.8	\$1,054.00
Dow/Phytogen	PX4A62W3FE	1,811.8	pq	36.9	31	40	4.0	36.3	1.23	3	81.3	4.8	\$1,029.67
Dow/Phytogen	PX5B73W3FE	1,768.3	pq	35.7	31	38	4.0	34.5	1.20	3	82.3	4.9	\$1,005.67
NexGen/Americot	NG4545B2XF	1,753.9	q	35.0	31	38	4.3	34.2	1.20	3	82.1	4.9	\$997.07
Dow/Phytogen	PX4A52W3FE	1,750.9	q	38.1	31	38	4.1	33.9	1.19	3	82.7	4.8	\$994.88
NexGen/Americot	NG3699B2XF	1,685.8	qr	34.4	31	39	3.9	34.5	1.22	3	80.3	4.6	\$954.30
Bayer	BX1872GLTP	1,514.7	r	34.0	31	38	4.2	34.1	1.19	3	81.4	4.9	\$861.08
Average		2,265.9		37.6	---	39	4.3	34.4	1.21	---	82.0	4.7	\$1,283.85
LSD\$		232.8		1.6	---	1	0.4	1.8	0.03	---	1.4	NS	\$128.23
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	0.0027	<0.0001	---	0.0004	0.4333	<0.0001
CV‡		6.9		2.9	---	1.9	6.3	3.5	1.7	---	1.2	13.1	6.7

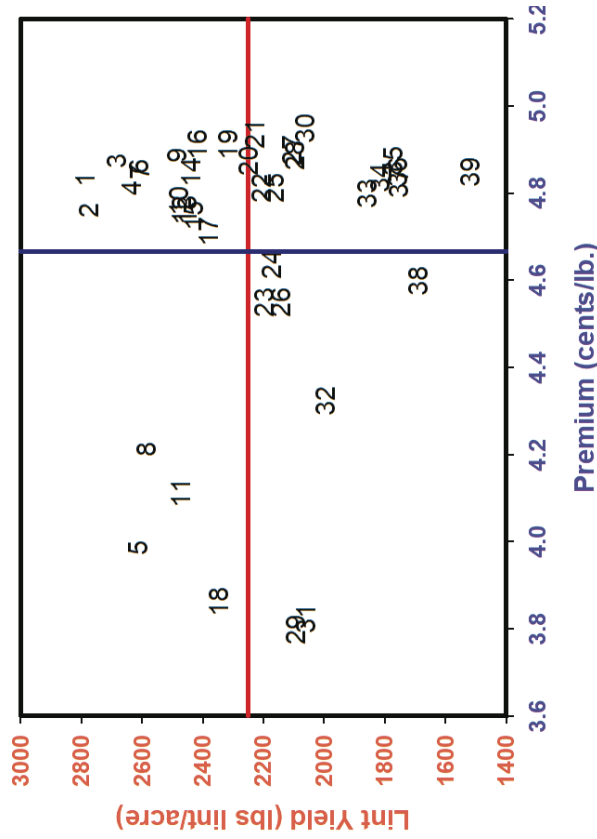
* Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significant Difference) means separation (α=0.05).

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

‡ Least Significant Difference

† Observed Significance Level

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
16R245NRB2XF	2.7	6.5	33.3	5.9
16R246NRB2XF	3.0	6.0	33.0	5.5
16R346B3XF	3.6	7.0	34.6	5.7
16R353B3XF	2.7	5.0	30.2	5.6
AMX1717B2XF	3.1	7.0	34.4	5.3
BX1831GLT	4.1	7.0	32.6	5.5
BX1833GLT	3.9	7.5	33.6	5.7
BX1872GLTP	4.6	8.0	34.6	4.9
BX1873GLTP	3.7	7.0	35.3	5.5
BX1874GLTP	3.3	7.0	31.9	5.2
DP1044B2RF	3.0	6.5	30.1	5.5
DP1549B2XF	3.8	7.5	34.2	5.9
DP1820B3XF	2.9	5.0	31.5	6.0
DP1823NRB2XF	3.5	6.5	33.8	5.6
DP1835B3XF	3.2	8.0	33.4	5.9
DP1840B3XF	3.1	6.5	34.8	5.8
DP1845B3XF	3.8	7.0	34.1	6.3
DP1851B3XF	2.9	6.5	36.1	6.3
FM1830GLT	3.3	7.0	32.9	5.6
FM2498GLT	3.1	7.0	33.1	5.6
FM2574GLT	3.4	6.5	31.7	5.5
NG3699B2XF	2.6	6.5	34.8	5.3
NG4545B2XF	3.0	7.0	35.7	6.4
NG4601B2XF	3.3	6.5	33.3	5.6
NG5007B2XF	3.5	7.0	33.9	6.0
NG5711B3XF	3.4	7.0	36.7	5.5
PHY490W3FE	4.9	7.0	33.8	5.6
PX3A82W3FE	3.5	6.5	31.5	5.9
PX3A96W3FE	3.9	7.0	34.3	5.5
PX3A99W3FE	3.9	7.7	32.8	5.7
PX4A54W3FE	3.6	8.0	32.0	5.8
PX4A57W3FE	5.0	7.0	32.2	5.5
PX4A62W3FE	4.2	7.0	32.0	5.5
PX5A57W3FE	3.2	7.0	33.0	5.9
PX5B73W3FE	3.4	7.5	34.1	5.8
PX5B76W3FE	3.2	8.0	34.7	5.4
ST5122GLT	4.1	7.5	29.9	5.5
ST5471GLTP	3.6	7.0	33.6	5.4
Mean	3.5	7.0	33.4	5.6



- 1 DP1823NRB2XF 14 16R245NRB2XF 27 PX4A54W3FE
- 2 BX1833GLT 15 NG4601B2XF 28 PX5B76W3FE
- 3 16R346B3XF 16 BX1873GLTP 29 16R353B3XF
- 4 AMX1711B3XF 17 ST5471GLTP 30 PX3A82W3FE
- 5 DP1835B3XF 18 16R246NRB2XF 31 FM2574GLT
- 6 BX1874GLTP 19 PX3A99W3FE 32 PX5A57W3FE
- 7 DP1845B3XF 20 PHY490W3FE 33 DP1820B3XF
- 8 AMX1717B2XF 21 DP1851B3XF 34 PX4A62W3FE
- 9 FM2498GLT 22 PX3A96W3FE 35 PX5B73W3FE
- 10 FM1830GLT 23 DP1840B3XF 36 NG4545B2XF
- 11 ST5122GLT 24 BX1831GLT 37 PX4A52W3FE
- 12 DP1549B2XF 25 PX4A57W3FE 38 NG3699B2XF
- 13 DP1044B2RF 26 NG5007B2XF 39 BX1872GLTP

Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the Advanced Strain location Maricopa, AZ., 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strains Testing Program, Safford, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Bayer/FiberMax	FM2574GLT	2297.6	a	44.8	31	37	4.7	32.5	1.16	3	80.7	4.0	\$1,286.62
Bayer	BX1833GLT	2149.8	ab	42.6	31	38	4.5	34.5	1.19	3	83.0	4.9	\$1,222.19
Bayer	BX1835GLT	2081.7	bc	43.0	31	37	3.8	31.0	1.15	3	79.3	3.8	\$1,161.76
Bayer	BX1834GLT	2030.1	bcd	42.4	31	39	4.3	32.9	1.22	3	82.6	4.8	\$1,153.07
Bayer/FiberMax	FM2498GLT	1973.1	cde	40.8	31	37	4.9	31.5	1.15	3	81.2	2.6	\$1,076.27
Dow/Phytogen	PX5A57W3FE	1924.8	def	40.9	31	37	4.2	32.4	1.14	3	80.9	4.4	\$1,085.51
Monsanto/Deltapine	16R246NRB2XF	1903.4	def	41.8	31	37	5.4	32.2	1.16	3	82.3	3.5	\$1,005.48
Dow/Phytogen	PX3A99W3FE	1843.6	efg	39.9	31	36	4.6	31.1	1.12	3	80.6	3.5	\$1,023.44
Bayer/FiberMax	FM1830GLT	1840.8	efg	41.4	31	38	4.5	32.3	1.19	3	80.7	4.6	\$1,042.34
Monsanto/Deltapine	DP1549B2XF	1830.5	efgh	41.2	31	36	4.4	31.0	1.12	3	80.6	3.7	\$1,019.37
Monsanto/Deltapine	DP1820B3XF	1809.9	fgh	44.2	31	37	5.1	31.4	1.16	3	80.3	2.6	\$988.13
Monsanto/Deltapine	DP1044B2RF	1802.9	fghi	39.0	31	36	4.6	30.2	1.12	3	81.2	3.3	\$998.46
Dow/Phytogen	PX5B76W3FE	1750.2	ghil	40.2	31	36	4.6	31.3	1.13	3	80.5	4.0	\$980.07
Dow/Phytogen	PX5B73W3FE	1706.9	ghijk	40.5	31	35	4.5	29.8	1.10	3	80.1	2.7	\$932.70
Monsanto/Deltapine	16R346B3XF	1699.3	ghijk	42.5	31	37	4.5	33.4	1.18	3	81.8	4.7	\$962.85
Dow/Phytogen	PX3A96W3FE	1683.7	hijkl	39.1	31	37	4.1	31.6	1.16	3	80.2	4.1	\$943.62
NexGen/Americot	NG4545B2XF	1683.4	hijkl	39.9	31	36	5.0	31.0	1.11	3	81.2	1.2	\$895.39
Monsanto/Deltapine	16R245NRB2XF	1654.1	ijklm	42.5	31	37	5.0	31.9	1.16	3	81.7	3.9	\$924.87
Dow/Phytogen	PX4A57W3FE	1648.5	ijklm	42.1	31	34	4.1	31.6	1.07	3	81.1	1.7	\$885.29
Bayer/Stoneville	ST5122GLT	1611.5	ijklmn	39.2	31	36	4.3	30.2	1.11	3	80.1	2.9	\$883.96
Dow/Phytogen	PHY490W3FE	1597.4	klmno	40.8	31	36	4.4	31.8	1.13	3	81.5	4.2	\$898.51
Bayer	BX1837GLT	1593.6	klmno	39.8	31	37	4.1	31.2	1.15	3	79.5	3.3	\$883.35
Dow/Phytogen	PX3A82W3FE	1586.3	klmno	40.5	31	37	4.1	32.3	1.14	3	83.4	4.5	\$896.64
Monsanto/Deltapine	DP1845B3XF	1581.5	klmno	42.5	31	38	4.3	32.7	1.18	3	80.2	4.3	\$890.62
Dow/Phytogen	PX4A54W3FE	1577.8	klmno	41.6	31	36	4.3	31.1	1.12	3	81.1	4.2	\$886.32
NexGen/Americot	NG5711B3XF	1577.7	klmno	41.7	31	36	4.5	31.5	1.14	3	80.4	4.3	\$887.95
Bayer	BX1838GLT	1543.5	lmnop	40.3	31	37	4.2	30.1	1.15	3	79.3	3.6	\$857.43
NexGen/Americot	NG3699B2XF	1519.4	mnpop	38.1	31	37	4.8	30.5	1.14	3	79.5	3.7	\$846.00
Dow/Phytogen	PX4A52W3FE	1495.2	nopq	40.1	31	37	4.3	32.0	1.14	3	81.7	4.5	\$844.77
NexGen/Americot	NG4601B2XF	1491.5	nopq	42.2	31	36	4.9	32.1	1.13	3	81.3	3.2	\$822.01
Bayer	BX1839GLT	1449.7	opqr	39.6	31	37	4.1	30.7	1.15	3	79.2	3.6	\$805.96
Monsanto/Deltapine	DP1840B3XF	1423.2	pqr	40.9	31	37	4.5	32.0	1.15	3	81.0	4.3	\$801.46
NexGen/Americot	AMX171B2XF	1381.0	qr	39.9	31	37	4.4	30.1	1.15	3	79.6	3.9	\$771.03
Dow/Phytogen	PX4A62W3FE	1302.4	rs	40.7	31	37	4.0	34.0	1.16	3	78.9	3.9	\$727.63
Monsanto/Deltapine	DP1851B3XF	1188.8	st	42.5	31	37	4.2	32.9	1.14	3	81.3	4.5	\$671.85
Monsanto/Deltapine	DP1835B3XF	1146.6	t	43.9	31	35	4.6	29.5	1.09	3	79.7	2.2	\$622.69
NexGen/Americot	NG5007B2XF	1132.9	t	41.9	31	35	4.7	27.8	1.09	3	80.6	1.8	\$609.38
Monsanto/Deltapine	DP1823NRB2XF	861.1	u	42.8	31	36	4.4	31.7	1.13	3	82.3	4.3	\$484.95
Monsanto/Deltapine	16R353B3XF	839.1	u	43.1	31	36	4.6	31.9	1.12	3	81.6	4.3	\$472.08
Average		1620.9		41.3		36	4.5	31.5	1.14		80.8	3.6	\$901.33
LSD§		151.6		1.2		1	0.3	1.5	0.02		1.2	1.1	\$89.94
OSL†		<0.0001		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001		<0.0001	<0.0001	<0.0001
CV‡		6.7		2.1		1.5	5.4	3.3	1.5		1.1	22.4	6.9

* 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

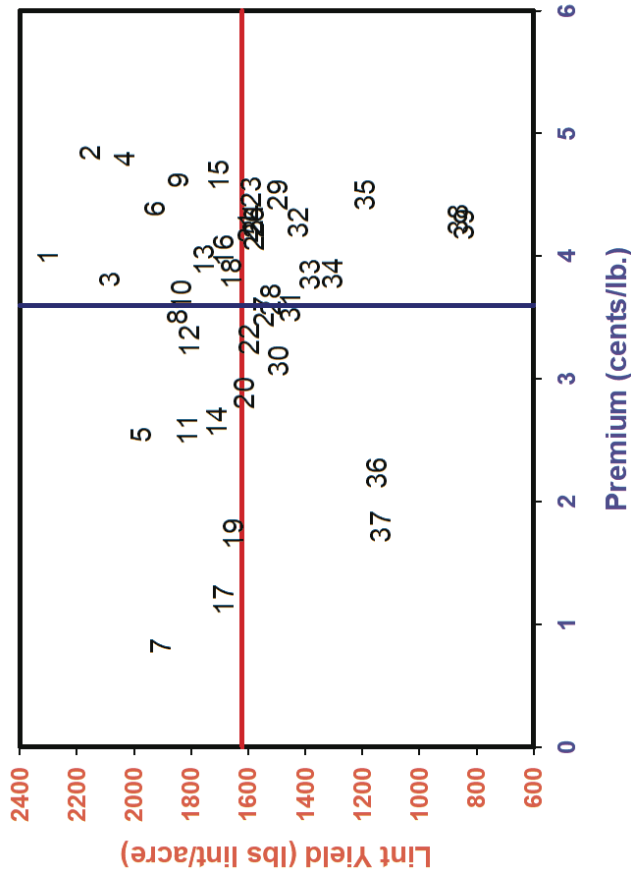
† Observed Significance Level

‡ Coefficient of Variation



Early and mid-season data collected for the University of Arizona Upland Cotton Advanced Strains Testing Program, Safford, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
16R245NRB2XF	2.6	6.5	35.1	7.8
16R246NRB2XF	2.6	4.5	31.1	8.0
16R346B3XF	2.8	6.0	33.5	8.7
16R353B3XF	2.7	2.5	27.4	7.2
AMX1717B2XF	2.9	7.0	37.6	6.1
BX1833GLT	3.0	7.0	30.5	7.3
BX1834GLT	2.5	7.0	31.6	6.4
BX1835GLT	4.7	6.0	29.7	6.8
BX1837GLT	3.1	6.5	32.5	6.6
BX1838GLT	3.9	6.5	34.7	7.4
BX1839GLT	3.8	6.5	31.5	6.6
DP1044B2RF	2.5	6.0	33.3	7.6
DP1549B2XF	3.9	6.0	33.5	8.2
DP1820B3XF	2.3	5.0	33.5	7.7
DP1823NRB2XF	3.1	4.5	29.9	8.9
DP1835B3XF	2.6	5.5	32.3	7.1
DP1840B3XF	2.5	3.5	28.0	8.5
DP1845B3XF	2.7	6.0	32.9	7.9
DP1851B3XF	2.6	4.0	30.2	8.2
FM1830GLT	3.5	6.0	34.5	7.1
FM2498GLT	4.6	7.0	31.3	5.8
FM2574GLT	2.6	7.0	36.3	7.6
NG3699B2XF	2.8	6.5	31.8	7.3
NG4545B2XF	4.2	7.0	36.0	7.7
NG4601B2XF	2.9	6.0	29.3	6.5
NG5007B2XF	2.4	5.5	31.3	6.6
NG5711B3XF	2.4	5.5	36.0	7.9
PHY490W3FE	4.0	6.0	31.6	7.1
PX3A82W3FE	3.9	6.5	31.4	7.0
PX3A96W3FE	4.6	6.5	31.1	6.3
PX3A99W3FE	4.5	6.5	32.0	6.9
PX4A52W3FE	4.2	6.5	30.9	7.5
PX4A54W3FE	3.9	6.5	32.1	7.0
PX4A57W3FE	3.8	7.0	32.6	7.0
PX4A62W3FE	4.3	5.5	28.5	6.9
PX5A57W3FE	2.5	6.5	32.5	7.6
PX5B73W3FE	3.5	6.5	34.1	7.1
PX5B76W3FE	4.2	6.5	30.5	7.4
ST5122GLT	4.3	7.5	30.4	6.9
Mean	3.3	6.0	32.1	7.3



- 1 FM2574GLT 14 PX5B73W3FE 27 BX1838GLT
- 2 BX1833GLT 15 16R346B3XF 28 NG3699B2XF
- 3 BX1835GLT 16 PX3A96W3FE 29 PX4A52W3FE
- 4 BX1834GLT 17 NG4545B2XF 30 NG4601B2XF
- 5 FM2498GLT 18 16R245NRB2XF 31 BX1839GLT
- 6 PX5A57W3FE 19 PX4A57W3FE 32 DP1840B3XF
- 7 16R246NRB2XF 20 ST5122GLT 33 AMX1717B2XF
- 8 PX3A99W3FE 21 PHY490W3FE 34 PX4A62W3FE
- 9 FM1830GLT 22 BX1837GLT 35 DP1851B3XF
- 10 DP1549B2XF 23 PX3A82W3FE 36 DP1835B3XF
- 11 DP1820B3XF 24 DP1845B3XF 37 NG5007B2XF
- 12 DP1044B2RF 25 PX4A54W3FE 38 DP1823NRB2XF
- 13 PX5B76W3FE 26 AMX1711B3XF 39 16R353B3XF

Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the Advanced Strain location Safford, AZ, 2017



Yield and fiber quality data for the University of Arizona Upland Cotton Variety Testing Program, Yuma, AZ 2016.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent		Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
				Lint	Lint									
CPS/DynaGro	DG3385B2XF	2,126.6	a	37.6	11	11	35	4.7	28.8	1.09	2	80.4	3.1	\$1,171.34
Monsanto/Deltapine	DP1522B2XF	2,064.6	ab	36.2	11	11	35	5.3	29.6	1.10	2	80.7	-0.5	\$1,062.80
Monsanto/Deltapine	DP1612B2XF	2,005.6	bc	36.4	11	11	36	4.8	29.3	1.11	2	79.7	3.8	\$1,118.73
Bayer/Stoneville	ST5020GLT	1,925.3	c	36.2	11	11	36	5.0	30.7	1.14	2	80.3	3.6	\$1,070.08
CPS/DynaGro	DG3109B2XF	1,632.8	d	35.2	11	11	36	4.9	30.2	1.11	2	80.7	4.1	\$915.22
Bayer/FiberMax	FM1911GLT	1,405.0	e	36.9	11	11	36	4.6	28.9	1.11	2	80.0	3.9	\$785.57
Average		1,860.0		36.4	---	---	36	4.9	29.6	1.11	---	80.3	3.0	\$1,020.62
LSD§		117.8		0.8	---	---	NS	0.2	NS	NS	---	NS	2.30	\$69.96
OSL†		<0.0001		0.0006	---	---	0.3308	0.0003	0.1144	0.1712	---	0.6392	0.0046	<0.0001
CV‡		4.2		1.5	---	---	2.5	3.2	3.4	2.2	---	1.2	50.4	4.5

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

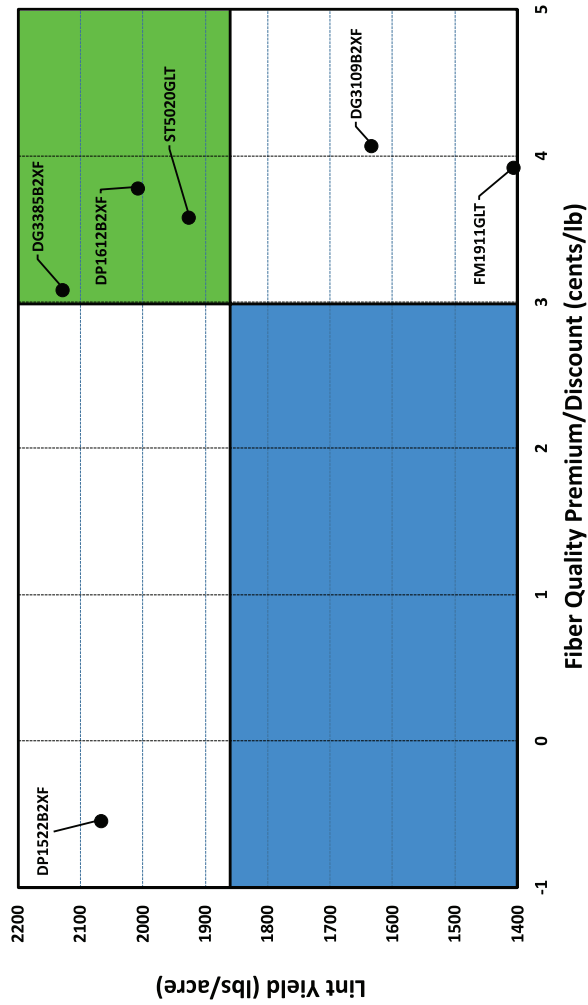
** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodea Above White Flower (NAWF)
DG3109B2XF	2.2	5.5	28.0	3.2
DG3385B2XF	3.0	6.8	31.8	2.4
DP1522B2XF	3.3	7.3	23.5	3.8
DP1612B2XF	2.8	7.3	30.2	2.5
FM1911GLT	2.3	7.0	27.9	3.4
ST5020GLT	2.6	7.8	27.2	2.6
Mean	2.7	6.9	28.4	2.9



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Yuma, AZ, 2017



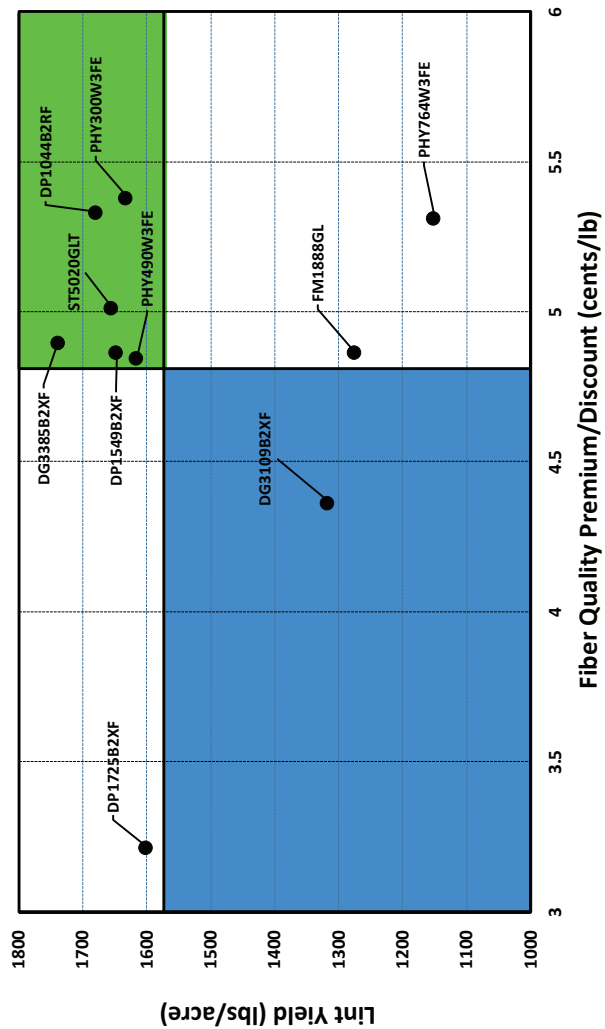
Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Goodyear, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
CPS/DynaGro	DG3385B2XF	1,738.0	a	33.5	21	36	4.7	29.9	1.14	2	81.5	4.9	\$989.04
Monsanto/Deltapine	DP1044B2RF	1,678.3	a	32.1	21	37	4.2	29.9	1.15	1	81.6	5.3	\$962.28
Bayer/Stoneville	ST5020GLT	1,655.3	ab	32.2	31	38	4.7	32.8	1.19	2	81.6	5.0	\$943.73
Monsanto/Deltapine	DP1549B2XF	1,647.1	bc	34.3	21	37	3.6	31.4	1.14	2	80.2	4.9	\$936.66
Dow/Phytogen	PHY300W3FE	1,631.9	bc	34.8	21	37	4.2	30.6	1.15	2	81.2	5.4	\$936.47
Dow/Phytogen	PHY490W3FE	1,614.6	bc	35.4	21	36	4.1	31.8	1.13	2	81.0	4.9	\$917.67
Monsanto/Deltapine	DP1725B2XF	1,600.1	c	37.1	21	35	4.2	28.7	1.10	2	79.2	3.2	\$883.65
CPS/DynaGro	DG3109B2XF	1,316.4	d	33.2	31	37	3.7	31.8	1.14	3	81.7	4.4	\$742.38
Bayer/FiberMax	FM1888GL	1,275.0	d	32.3	31	37	4.0	31.5	1.15	3	80.5	4.9	\$725.02
Dow/Phytogen	PHY764W3FE	1,150.7	e	29.0	21	38	3.4	34.4	1.20	2	82.2	5.3	\$659.61
Average		1,530.7		33.4	---	37	4.1	31.3	1.15	---	81.1	4.8	\$869.65
LSD\$		64.7		1.1	---	1	0.3	1.5	0.04	---	1.2	NS	\$47.60
OSL†		<0.0001		<0.0001	---	0.0017	<0.0001	<0.0001	0.0035	---	0.0026	0.1736	<0.0001
CV‡		2.5		1.9	---	1.8	3.8	2.8	2.1	---	1.0	17.8	3.2

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

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing Program, Goodyear, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3109B2XF	2.3	5.3	36.3	6.3
DG3385B2XF	3.6	8.0	45.6	5.8
DP1549B2XF	3.1	7.0	50.6	6.9
DP1725B2XF	2.3	7.0	38.1	6.1
FM1888GL	3.0	6.7	42.6	6.1
PHY300W3FE	3.6	7.0	40.7	5.6
PHY490W3FE	3.9	7.3	44.1	6.3
PHY764W3FE	2.6	7.0	49.4	6.5
ST5020GLT	3.0	7.0	40.8	5.3
Mean	3.0	6.9	43.1	6.1



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Goodyear, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Stanfield, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Monsanto/Deltapine	DP1549B2XF	2,100.1	a	38.5	21	35	4.7	31.1	1.09	1	79.8	3.0	\$1,156.83
CPS/DynaGro	DG3635B2XF	1,960.7	ab	37.1	21	36	4.6	32.0	1.11	2	79.8	4.2	\$1,100.58
Monsanto/Deltapine	DP1044B2XF	1,930.9	ab	35.8	21	36	4.9	29.9	1.12	1	80.2	4.5	\$1,090.66
CPS/DynaGro	DG3526B2XF	1,904.5	b	39.8	11	35	5.0	29.2	1.08	2	80.0	0.9	\$1,006.81
Dow/Phytogen	PHY444WRF	1,897.5	b	37.4	21	39	4.2	31.9	1.21	1	81.2	5.9	\$1,098.79
Dow/Phytogen	PHY490W3FE	1,857.5	b	36.7	11	36	4.7	32.3	1.13	2	81.7	4.8	\$1,055.56
Bayer/Stoneville	ST4949GLT	1,626.2	c	38.0	21	37	5.0	31.4	1.13	2	81.4	3.1	\$895.55
Bayer/Stoneville	ST5517GLTP	1,529.4	c	34.4	21	35	4.9	31.0	1.09	2	79.7	3.5	\$848.83
Average		1,850.9		37.2	---	36	4.7	31.1	1.12	---	80.5	3.7	\$1,031.70
LSD§		192.2		2.0	---	NS	0.3	NS	NS	---	NS	NS	\$139.54
OSL†		0.0032		0.0082	---	0.0501	0.0048	0.3707	0.0659	---	0.4852	0.3674	0.0113
CV‡		4.4		2.3	---	2.5	2.6	4.3	2.8	---	1.4	50.2	5.7

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

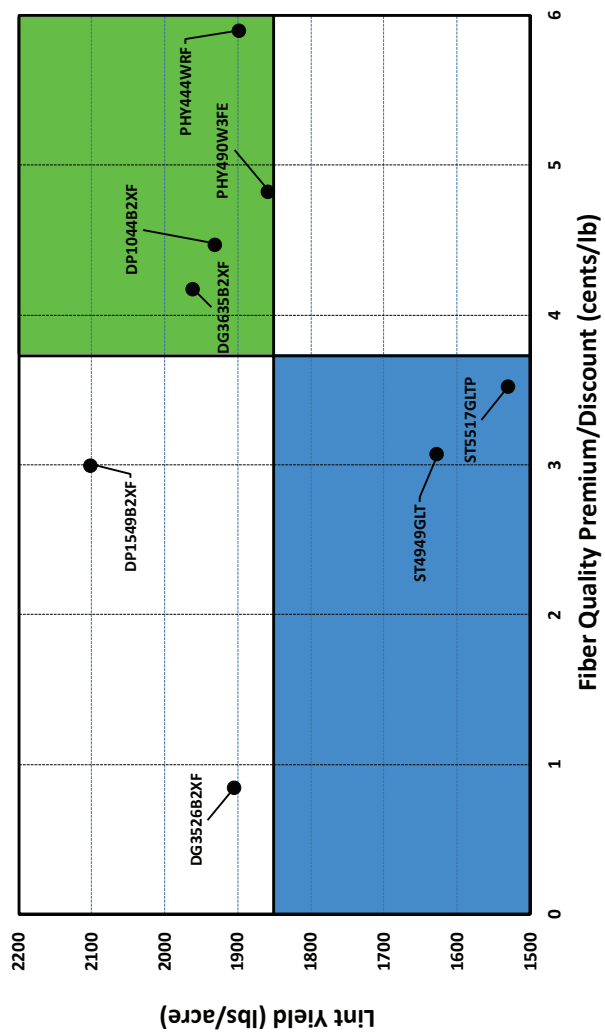
** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

§ Least Significant Difference

† Observed Significance Level

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing Program, Stanfield, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3526B2XF	2.0	5.0	26.5	7.7
DG3635B2XF	1.9	6.0	28.8	7.7
DP1044B2XF	1.9	6.0	27.2	7.3
DP1549B2XF	2.5	6.7	27.6	7.0
PHY444WRF	2.2	6.3	26.6	7.6
PHY490W3FE	1.8	6.7	29.7	7.1
ST4949GLT	2.1	6.3	27.8	8.3
ST5517GLTP	2.1	6.3	30.6	7.9
Mean	2.1	6.2	28.1	7.6



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Stanfield, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Queen Creek, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Monsanto/Deltapine	DP1549B2XF	1,646.3	a	37.8	21	36	4.7	31.2	1.11	1	79.8	4.1	\$923.27
Monsanto/Deltapine	DP1646B2XF	1,596.2	a	38.2	11	37	4.9	29.6	1.14	1	79.3	3.2	\$880.45
CPS/DynaGro	DG3635B2XF	1,535.3	b	36.3	21	35	5.0	30.2	1.10	1	79.8	1.2	\$816.20
Bayer/FiberMax	FM1830GLT	1,441.2	c	36.5	21	36	4.9	31.5	1.12	2	80.5	3.8	\$804.63
Dow/Phytogen	PHY450W3FE	1,425.8	c	37.2	21	35	4.8	33.8	1.09	2	81.4	3.8	\$796.27
Dow/Phytogen	PHY444WRF	1,414.2	c	36.9	11	37	4.4	31.9	1.15	1	80.7	5.4	\$811.43
CPS/DynaGro	DG3526B2XF	1,389.3	c	38.3	21	35	4.8	29.5	1.09	2	80.9	3.7	\$773.07
Bayer/Stoneville	ST5020GLT	1,307.8	d	34.7	21	36	5.0	32.0	1.12	2	80.6	3.5	\$725.86
Average		1,710.4		36.4	---	38	4.6	32.9	1.19	2	82.5	4.5	\$966.75
LSD§		128.0		2.6	---	1	0.3	1.5	0.04	1	0.9	0.8	\$68.08
OSL†		<0.0001		0.0438	---	0.0081	0.0003	0.0002	0.0010	0.0027	0.0022	<0.0001	<0.0001
CV‡		4.3		4.0	---	2.1	3.7	2.7	1.9	17.5	0.6	10.4	4.0

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

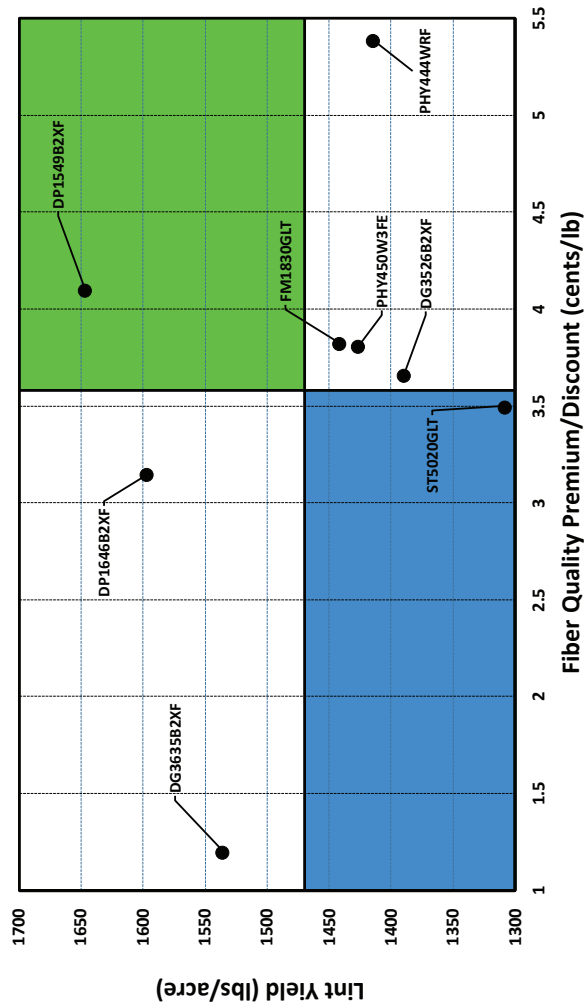
** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3526B2XF	1.7	6.3	27.3	4.9
DG3635B2XF	2.0	6.7	28.9	4.9
DP1549B2XF	2.2	7.3	27.8	5.0
DP1646B2XF	1.7	6.3	29.6	6.1
FM1830GLT	1.7	6.7	27.4	5.2
PHY444WRF	1.6	6.0	30.1	5.1
PHY450W3FE	1.8	7.0	29.0	5.3
ST5020GLT	1.7	6.3	27.9	4.7
Mean	1.8	6.6	28.5	5.2



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Queen Creek, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Marana, AZ, 2017.

Seed Company	Variety	Lint Yield		Yield Means		Percent		Color		Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
		(lbs/acre)	Separation*	Lint	Grade	Lint	Grade										
Monsanto/Deltapine	DP1522B2XF	1,852.9	a	33.8	21	38	4.2	31.5	1.18	3	81.0	5.1	\$1,057.53				
Monsanto/Deltapine	DP1549B2XF	1,826.3	ab	32.8	21	37	3.2	31.8	1.17	2	80.0	1.7	\$980.08				
CPS/DynaGro	DG3526B2XF	1,771.7	ab	34.5	16	37	3.4	28.2	1.15	3	80.6	2.5	\$968.09				
Dow/Phytogen	PHY490W3FE	1,717.1	ab	33.5	16	38	3.6	33.2	1.19	3	81.5	5.6	\$988.32				
Bayer/Stoneville	ST4949GLT	1,671.6	bc	33.9	21	37	3.1	29.7	1.15	3	80.1	0.6	\$878.60				
Dow/Phytogen	PHY444WRF	1,668.5	bc	33.3	21	40	3.0	32.1	1.25	3	81.6	0.7	\$880.54				
Bayer/FiberMax	FM1888GL	1,526.9	cd	32.8	21	39	3.5	32.3	1.21	3	80.8	4.5	\$862.71				
CPS/DynaGro	DG3635B2XF	1,506.2	d	29.7	21	38	2.9	32.3	1.19	3	80.4	-0.2	\$780.05				
Average		1,692.7		33.0	---	38	3.3	31.4	1.18	---	80.7	2.5	\$924.49				
LSD§		161.6		NS	---	2	0.4	1.7	0.03	---	1.6	3.80	\$135.98				
OSL†		0.0102		0.096	---	0.0185	0.0041	0.0030	0.0016	---	0.2519	0.0493	0.0278				
CV‡		4		3.7	---	1.7	5.6	2.2	1.1	---	0.8	63.8	6.2				

* 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 of \$0.52/lb + premium/discount

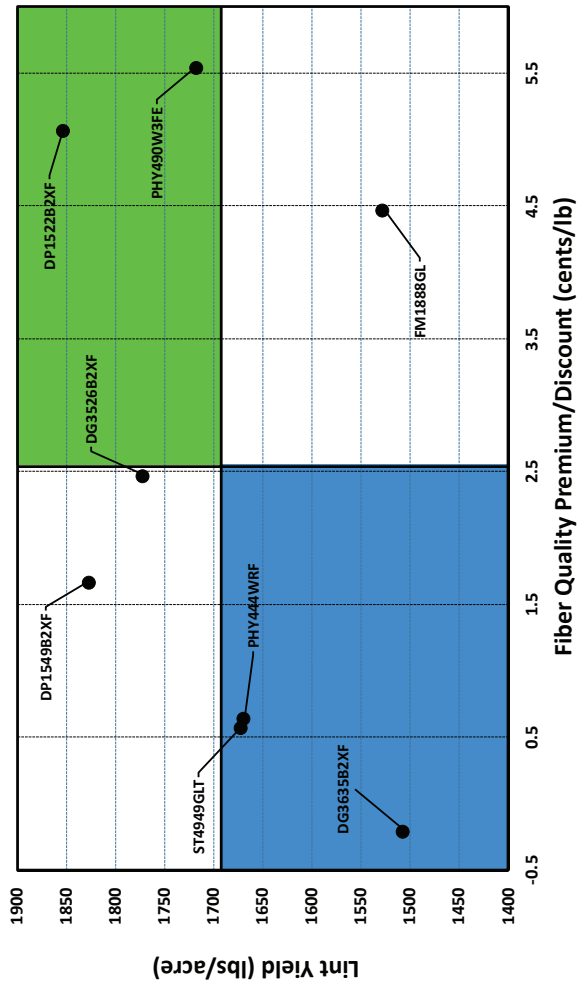
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing Program, Marana, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3526B2XF	2.3	4.5	28.4	9.4
DG3635B2XF	2.1	6.0	30.0	10.2
DP1522B2XF	2.6	6.0	31.7	9.1
DP1549B2XF	2.6	4.5	30.3	10.4
FMI1888GL	2.2	5.0	28.1	10.3
PHY444WRF	2.6	4.5	30.1	10.0
PHY490W3FE	3.5	6.5	31.6	9.0
ST4949GLT	2.6	4.5	29.4	9.6
Mean	2.6	5.2	29.9	9.8



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Marana, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Thatcher, AZ, 2017.

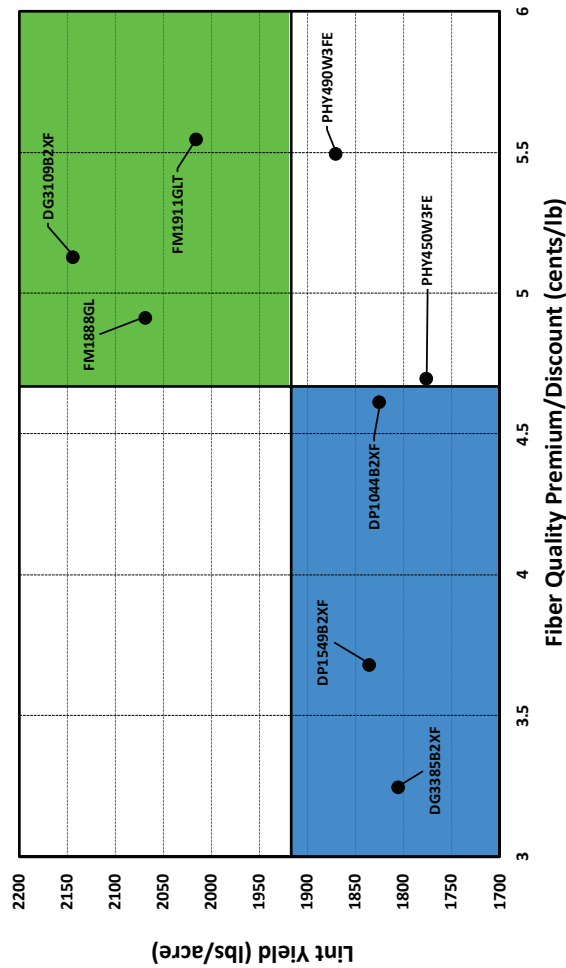
Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
CPS/DynaGro	DG3109B2XF	2,143.4	a	37.6	21	37	4.4	28.7	1.14	2	80.7	5.1	\$1,225.07
Bayer/FiberMax	FM1888GL	2,067.4	ab	36.6	11	37	4.1	30.6	1.15	2	80.3	4.9	\$1,177.05
Bayer/FiberMax	FM1911GLT	2,015.3	abc	38.5	21	37	4.1	30.0	1.17	1	80.5	5.6	\$1,159.77
Dow/Phytogen	PHY490W3FE	1,870.1	bc	37.1	11	37	4.1	31.0	1.14	1	80.7	5.5	\$1,075.35
Monsanto/Deltapine	DP1549B2XF	1,834.8	bc	38.6	11	36	4.0	28.9	1.10	1	79.1	3.7	\$1,021.48
Monsanto/Deltapine	DP1044B2XF	1,824.1	c	35.1	11	36	4.0	29.0	1.12	1	80.5	4.6	\$1,032.44
CPS/DynaGro	DG3385B2XF	1,804.3	c	37.0	11	35	4.1	28.1	1.10	2	79.7	3.3	\$996.38
Dow/Phytogen	PHY450W3FE	1,775.9	c	38.0	21	36	4.2	30.5	1.11	1	80.8	4.7	\$1,006.72
Average		1,924.5		37.4	---	36	4.1	29.6	1.13	---	80.3	4.7	\$1,092.40
LSD\$		241.1		NS	---	1	NS	1.3	0.03	---	NS	1.00	\$138.45
OSL†		0.0423		0.1374	---	0.0031	0.1257	0.0030	0.0009	---	0.0757	0.0009	0.0182
CV‡		7.5		4.1	---	1.6	3.6	2.7	1.8	---	0.8	12.2	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

‡ Observed Significance Level

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3109B2XF	3.3	5.3	32.9	5.2
DG3385B2XF	3.9	6.7	28.5	3.1
DP1044B2XF	4.0	6.7	33.3	5.1
DP1549B2XF	4.2	7.7	34.6	5.7
FM1888GL	3.9	6.3	30.8	3.3
FM1911GLT	4.0	6.7	28.2	3.6
PHY450W3FE	4.0	6.5	33.8	4.5
PHY490W3FE	4.1	7.3	32.5	4.5
Mean	3.9	6.7	31.8	4.4



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Thatcher, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Bonita, AZ, 2017.

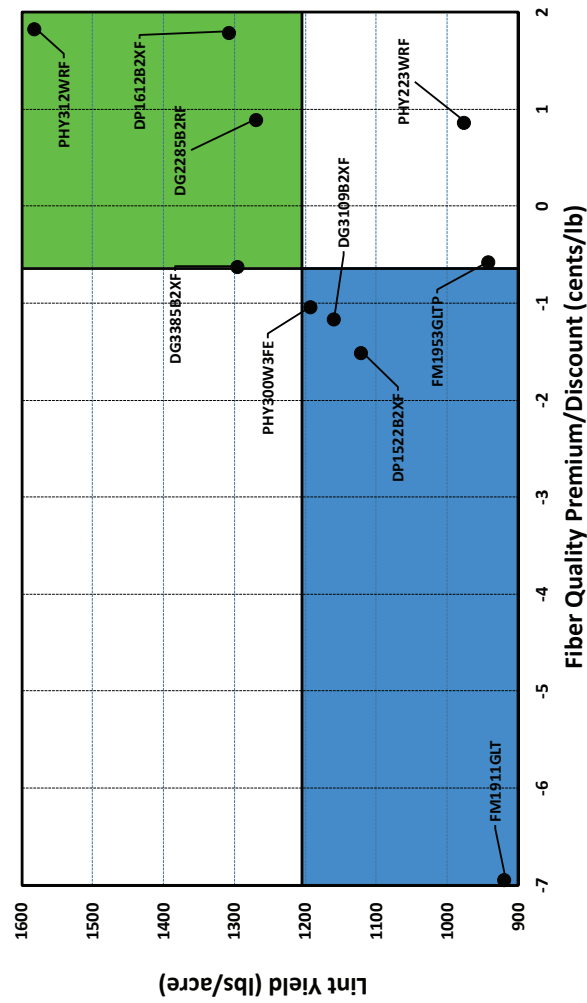
Seed Company	Variety	Lint Yield		Yield Means		Percent		Color		Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
		(lbs/acre)	Separation*	Lint	Grade	Grade	Grade										
Dow/Phytogen	PHY312WRF	1,580.7	a	36.2	21	3.8	28.1	1.11	2	80.0	1.8	\$853.04					
Monsanto/Deltapine	DP1612B2XF	1,306.7	b	33.5	21	3.3	29.2	1.13	2	80.0	1.8	\$703.02					
CPS/DynaGro	DG3385B2XF	1,294.9	b	35.6	11	3.6	27.6	1.07	2	79.5	-0.6	\$665.47					
CPS/DynaGro	DG2285B2RF	1,267.6	bc	34.2	21	3.6	27.0	1.06	2	81.3	0.9	\$670.62					
Dow/Phytogen	PHY300W3FE	1,192.1	bcd	35.5	21	3.2	27.2	1.08	2	80.0	-1.0	\$606.68					
CPS/DynaGro	DG3109B2XF	1,159.2	cd	34.4	21	3.2	28.5	1.09	2	80.5	-1.2	\$591.79					
Monsanto/Deltapine	DP1522B2XF	1,120.9	d	31.9	21	3.2	28.2	1.09	2	79.0	-1.5	\$569.28					
Dow/Phytogen	PHY223WRF	975.5	e	31.0	21	2.8	28.3	1.12	2	79.2	0.9	\$515.77					
Bayer/FiberMax	FM1953GLTP	941.1	e	32.4	21	3.1	28.2	1.11	2	79.7	-0.6	\$484.40					
Bayer/FiberMax	FM1911GLT	918.3	e	34.7	21	2.7	26.3	1.07	2	77.3	-6.9	\$414.19					
Average		1,179.5		34.0	---	3.2	27.9	1.09	---	79.6	-0.7	\$608.44					
LSD\$		119.3		1.8	---	NS	1.3	NS	---	1.9	NS	\$133.36					
OSL†		<0.0001		0.0002	---	0.0571	0.0080	0.0826	---	0.0455	0.4399	0.0001					
CV‡		5.6		2.6	---	2.4	2.6	2.2	---	1.3	15.4	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

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing Program, Bonita, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG2285B2RF	2.4	5.0	33.0	2.0
DG3109B2XF	1.7	4.0	35.3	4.7
DG3385B2XF	2.2	7.0	31.9	3.7
DP1522B2XF	2.8	6.3	38.0	4.0
DP1612B2XF	2.7	6.7	30.9	3.4
FM1911GLT	1.9	6.0	26.6	3.3
FM1953GLTP	3.0	8.0	30.3	2.8
PHY223WRF	3.0	7.0	32.8	3.6
PHY300W3FE	2.5	7.7	33.6	3.6
PHY312WRF	2.5	7.7	37.5	4.2
Mean	2.4	6.6	33.0	3.6



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Bonita, AZ, 2017



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Cochise Co. (near Rodeo, NM), AZ, 2017.

Seed Company	Variety	Lint Yield		Yield Means		Percent		Color		Staple		Strength		Length		Leaf		Uniformity		Premium		Value ** (\$/acre)
		(lbs/acre)	Separation*	Lint	Grade	Lint	Grade	(32nds)	Micronaire	(g/tex)	(in.)	Grade	Index (%)	(cents/lb)	Value **							
CPS/DynaGro	DG3109B2XF	1,611.9		39.9	11	37	4.2	28.4	1.17	1	80.4	5.3	\$923.60									
Bayer/FiberMax	FM1953GLTP	1,567.6		35.1	11	37	3.5	30.4	1.16	2	79.4	4.8	\$889.61									
Monsanto/Deltapine	DP1522B2XF	1,545.7		40.5	11	37	4.3	28.4	1.15	1	79.8	4.5	\$872.55									
Dow/Phytogen	PHY300W3FE	1,524.4		39.1	11	36	4.3	28.4	1.13	2	79.3	4.0	\$852.93									
Monsanto/Deltapine	DP1612B2XF	1,509.9		38.9	11	37	4.3	28.8	1.16	2	80.6	5.2	\$863.65									
CPS/DynaGro	DG3385B2XF	1,340.6		41.0	11	36	4.1	27.6	1.13	1	80.5	4.8	\$761.45									
Bayer/FiberMax	FM1911GLT	1,213.2		39.3	11	36	4.2	29.1	1.13	1	79.3	4.2	\$681.22									
Dow/Phytogen	PHY764WRF	1,045.5		38.1	11	37	4.4	31.7	1.16	2	80.4	5.7	\$603.24									
Average		1,419.8		39.0		37	4.2	29.1	1.15		80.0	4.8	\$806.03									
LSD§		---		---		---	---	---	---		---	---	---									
OSL†		---		---		---	---	---	---		---	---	---									
CV‡		---		---		---	---	---	---		---	---	---									

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

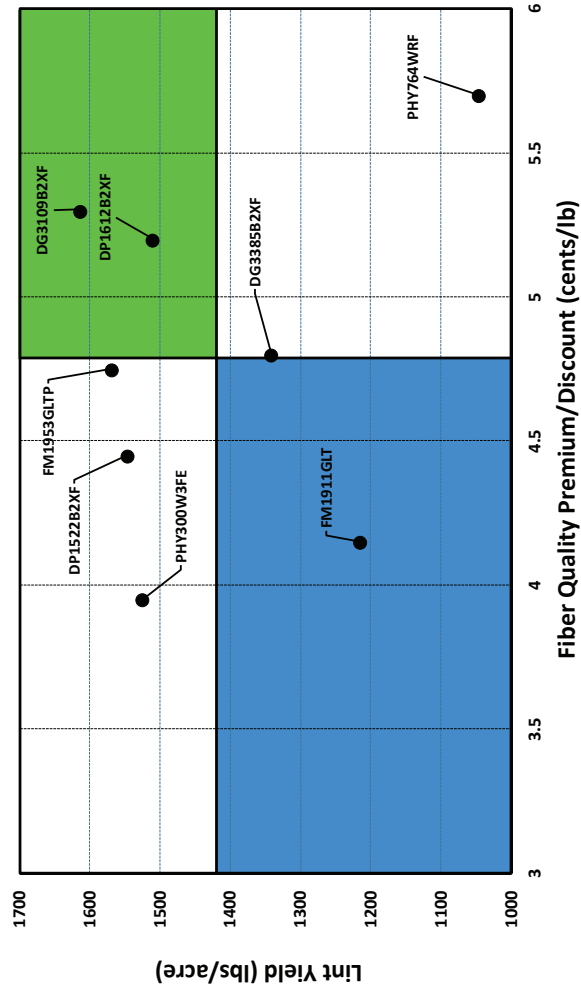
** Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount

§ Least Significant Difference

† Observed Significance Level

Early and mid-season data collected for the University of Arizona Upland Cotton Variety Testing Program, Cochise Co. (near Rodeo, NM), AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
3109B2XF	2.7	5.3	27.1	6.5
3385B2XF	3.1	7.7	27.9	5.3
1522B2XF	3.0	7.3	28.6	6.3
1612B2XF	3.6	8.3	28.1	6.1
1911GLT	3.2	7.0	27.0	6.4
1953GLTP	2.8	7.0	27.7	7.3
Y300W3FE	3.2	7.5	27.8	5.9
Y312WRF	3.3	7.5	28.6	6.3
Y764WRF	3.3	7.5	28.4	6.7
Mean	3.1	7.2	27.9	6.3



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location Cochise Co. (near Rodeo, NM), AZ, 2017



Yield and fiber quality data for The University of Arizona ELS (Pima) Cotton Advanced Strains Testing Program, Maricopa, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Monsanto/Deltapine	MM-17-6	1,455.3	a	36.6	1	49	4.3	41.4	1.43	1	85.4	1.6	\$1,183.91
Monsanto/Deltapine	MM-17-8	1,364.8	ab	36.2	1	50	4.1	40.1	1.44	1	86.1	-0.5	\$1,086.38
Monsanto/Deltapine	DP341RF	1,304.5	abc	32.9	1	49	4.3	41.0	1.42	1	86.5	1.6	\$1,061.18
Monsanto/Deltapine	MM-17-4	1,288.2	abcd	34.4	1	49	4.1	40.8	1.41	1	84.7	-0.5	\$1,022.01
Monsanto/Deltapine	MM-17-2	1,272.7	bcde	33.6	1	49	4.0	39.4	1.42	1	86.3	-3.3	\$975.48
Monsanto/Deltapine	MM-17-5	1,229.4	bcdef	34.0	1	49	4.2	41.2	1.43	1	87.1	1.6	\$1,000.10
Monsanto/Deltapine	MM-17-1	1,206.6	bcdefg	35.4	1	48	4.4	39.8	1.38	1	84.9	1.5	\$980.35
Monsanto/Deltapine	MM-17-7	1,171.9	cdefg	33.7	1	50	4.3	41.5	1.43	1	86.5	1.6	\$953.32
Monsanto/Deltapine	DP348RF	1,153.0	cdefg	34.0	1	50	4.0	40.3	1.43	1	86.2	1.6	\$937.95
Dow/Phytogen	PHY841RF	1,146.6	cdefg	35.3	1	48	4.4	38.7	1.40	1	85.8	-0.6	\$901.86
Dow/Phytogen	PHY802RF	1,117.4	defg	34.9	1	49	4.1	40.6	1.43	1	86.3	-0.5	\$885.10
Monsanto/Deltapine	DP330RF	1,108.5	efg	34.2	1	48	4.4	40.2	1.39	1	85.4	1.5	\$901.23
Monsanto/Deltapine	DP358RF	1,082.6	fg	35.0	1	48	4.5	38.7	1.41	1	85.7	-1.7	\$846.20
Monsanto/Deltapine	MM-17-3	1,051.8	gh	35.1	1	50	4.2	41.4	1.42	1	86.9	1.6	\$855.65
Dow/Phytogen	PHY805RF	1,051.3	gh	34.6	1	49	4.0	42.1	1.44	1	86.1	1.6	\$855.20
Monsanto/Deltapine	MM-17-10	1,048.0	gh	34.4	1	49	4.2	40.5	1.41	1	86.8	1.6	\$852.58
Dow/Phytogen	PHY881RF	1,047.8	gh	35.2	1	49	4.1	40.0	1.42	1	85.9	1.6	\$852.37
Monsanto/Deltapine	MM-17-9	887.1	hi	33.5	1	49	4.0	39.5	1.43	1	85.8	1.6	\$721.63
Dow/Phytogen	PHY888RF	856.3	i	34.0	1	50	4.1	40.9	1.44	1	85.9	1.5	\$696.14
Average		1,149.7		34.6	---	49	4.2	40.4	1.42	---	86.0	0.7	\$924.67
LSD\$		171.8		NS	---	NS	NS	NS	NS	---	NS	NS	\$148.47
OSL†		<0.0001		0.1154	---	0.7053	0.1332	0.6267	0.7831	---	0.2807	0.2193	<0.0001
CV‡		10.5		4.3	---	3.0	5.9	5.1	2.7	---	1.3	364.7	11.3

* 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 \$0.7977/lb + premium/discount

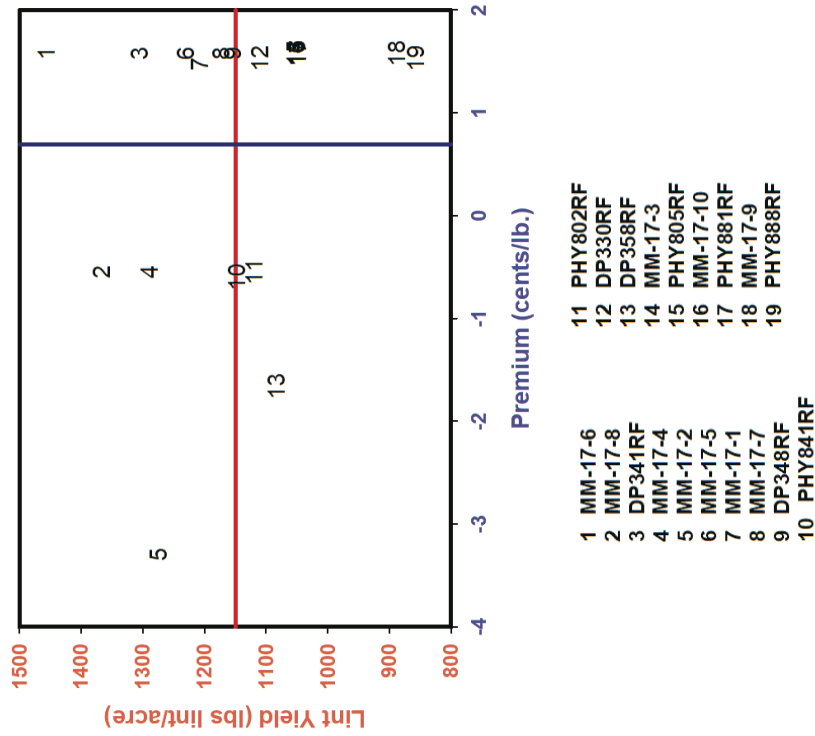
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona ELS (Pima) Cotton Variety Testing Program, Maricopa, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DP330RF	3.3	7.5	36.2	6.0
DP341RF	4.2	7.0	33.3	5.7
DP348RF	3.7	8.0	38.6	6.1
DP358RF	3.4	6.5	33.8	6.5
MM-17-1	3.7	8.0	39.3	7.5
MM-17-10	3.0	7.5	34.8	6.2
MM-17-2	3.3	7.5	36.0	6.2
MM-17-3	3.7	7.5	36.4	6.3
MM-17-4	4.0	7.5	36.5	5.8
MM-17-5	4.7	7.0	37.4	5.9
MM-17-6	4.9	7.0	32.5	5.6
MM-17-7	4.5	7.0	34.4	6.6
MM-17-8	3.0	8.0	34.7	6.1
MM-17-9	3.8	7.0	33.0	6.3
PHY802RF	3.3	7.0	35.7	5.6
PHY805RF	2.5	6.0	36.5	6.9
PHY841RF	2.5	6.5	33.3	5.8
PHY881RF	4.0	7.5	35.6	5.7
PHY888RF	3.8	7.0	35.2	6.6
Mean	3.6	7.2	35.4	6.2



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCVT location Maricopa, AZ, 2017



Yield and fiber quality data for The University of Arizona ELS (Pima) Cotton Advanced Strains Testing Program, Safford, AZ, 2017.

Seed Company	Variety	Lint Yield		Yield Means		Percent		Color		Staple (32nds)	Micronaire	Strength (g/txc)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
		(lbs/acre)	Separation*	Lint	Separation*	Lint	Grade	Grade									
Harrison Farms	H7	1,404.8	a	37.1		1	47	4.0	41.8	1.35	86.2	1.4	\$1,140.63				
Monsanto/Deltapine	MS_17_2	1,361.6	a	36.9		1	48	4.2	42.8	1.38	87.4	1.5	\$1,107.02				
Monsanto/Deltapine	MS_17_10	1,238.1	b	35.7		1	47	4.1	44.1	1.37	86.6	1.4	\$1,005.29				
Monsanto/Deltapine	MS_17_7	1,206.5	bc	35.6		1	49	3.8	43.4	1.40	86.7	1.6	\$981.47				
Dow/Phytogen	PHY881RF	1,162.4	bcd	36.0		1	48	4.3	43.3	1.40	86.4	1.5	\$944.99				
Dow/Phytogen	PHY841RF	1,159.1	bcd	36.4		1	47	4.0	43.0	1.36	87.2	1.4	\$941.15				
Monsanto/Deltapine	MS_17_4	1,154.2	bcd	35.6		1	49	3.9	41.6	1.39	86.5	1.6	\$938.92				
Monsanto/Deltapine	MS_17_9	1,149.7	bcd	36.1		1	48	3.8	39.9	1.39	86.9	1.5	\$934.70				
Monsanto/Deltapine	MS_17_8	1,141.5	cd	35.3		1	49	3.8	43.4	1.42	87.4	1.6	\$928.59				
Monsanto/Deltapine	MS_17_5	1,124.4	cd	35.6		1	46	4.3	43.3	1.34	86.7	0.4	\$901.34				
Monsanto/Deltapine	MS_17_6	1,122.4	cd	34.5		1	47	4.1	43.4	1.37	87.6	1.5	\$911.93				
Monsanto/Deltapine	DP348RF	1,121.7	cd	35.7		1	48	3.8	41.8	1.40	86.9	1.6	\$912.49				
Monsanto/Deltapine	DP330RF	1,114.9	cd	34.5		1	48	3.8	42.6	1.37	87.4	1.5	\$906.42				
Monsanto/Deltapine	MS_17_1	1,111.1	cd	34.8		1	49	4.0	41.4	1.40	87.2	1.6	\$903.87				
Monsanto/Deltapine	DP358RF	1,099.3	d	34.7		1	49	4.1	40.5	1.42	87.2	1.5	\$893.74				
Monsanto/Deltapine	DP341RF	1,085.0	d	35.0		1	48	4.1	42.6	1.38	87.1	1.5	\$882.09				
Monsanto/Deltapine	MS_17_3	1,083.6	d	34.7		1	48	4.0	43.7	1.40	87.3	1.6	\$881.53				
Dow/Phytogen	PHY888RF	1,068.9	de	36.7		1	49	3.9	44.1	1.43	87.9	1.6	\$869.57				
Dow/Phytogen	PHY802RF	978.5	ef	34.8		1	49	3.8	40.4	1.42	87.1	1.6	\$796.00				
Dow/Phytogen	PHY805RF	901.7	f	36.0		1	48	4.0	42.7	1.38	86.3	1.5	\$733.02				
Average		1,139.5		35.6		---	48	4.0	42.5	1.39	87.0	1.5	\$925.74				
LSD§		95.7		1.6		---	2	0.3	NS	0.05	NS		\$78.41				
OSL†		<0.0001		0.0221		---	0.0094	0.0021	0.1776	0.0297	---		0.5136	0.3080	<0.0001		
CV‡		5.9		3.2		---	2.4	5.3	4.9	2.4	---		1.1	33.2	6.0		

* 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 \$0.7977/lb + premium/discount

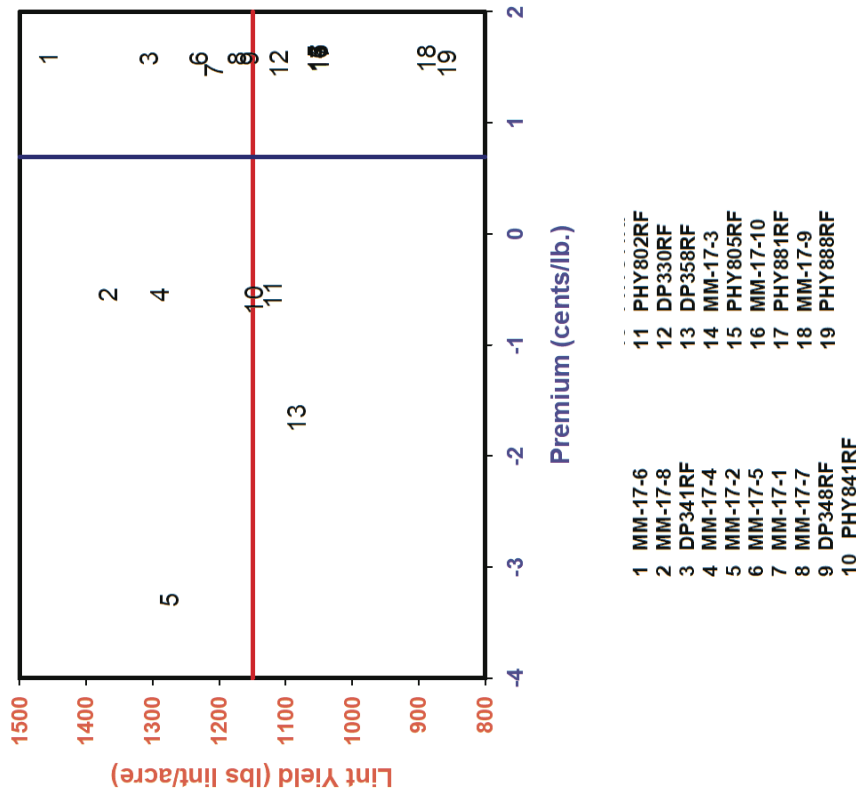
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona ELS (Pima) Cotton Variety Testing Program, Safford, AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DP330RF	4.5	7.5	37.0	8.0
DP341RF	3.9	6.5	35.6	7.6
DP348RF	3.9	7.5	36.9	7.4
DP358RF	3.6	6.0	36.5	7.0
MS-17-1	4.4	7.3	38.2	7.0
MS-17-10	4.8	7.8	36.4	7.3
MS-17-2	4.2	6.5	31.9	6.3
MS-17-3	4.2	7.5	36.4	7.0
MS-17-4	3.8	6.3	37.0	7.4
MS-17-5	3.9	7.0	36.5	7.3
MS-17-6	4.5	7.3	38.8	7.3
MS-17-7	4.0	7.5	35.8	7.0
MS-17-8	4.2	7.0	36.8	7.5
MS-17-9	3.9	6.5	36.6	7.8
PHY802RF	4.3	6.8	37.1	7.1
PHY805RF	2.9	5.0	36.1	7.9
PHY841RF	4.2	6.8	35.5	7.3
PHY881RF	4.1	7.0	37.6	8.0
PHY888RF	4.1	7.5	37.7	7.7
Mean	4.1	6.9	36.5	7.3



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCVT location Safford, AZ, 2017

Yield and fiber quality data for The University of Arizona ELS (Pima) Cotton Variety Testing Program, Maricopa (Ak-Chin), AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Monsanto/Deltapine	DP330RF	684.5	a	30.4	1	48	3.7	42.0	1.39	2	85.7	1.6	\$556.88
Dow/Phytogen	PHY841RF	672.2	a	31.4	2	48	3.6	40.4	1.39	2	85.6	-0.5	\$534.17
Monsanto/Deltapine	DP348RF	631.4	a	28.2	2	48	3.4	40.9	1.39	2	85.4	-3.0	\$484.72
Dow/Phytogen	PHY888RF	614.8	a	27.8	2	48	3.5	40.6	1.40	2	84.8	-0.5	\$486.31
Dow/Phytogen	PHY881RF	599.8	a	27.2	2	48	3.9	40.8	1.39	2	85.3	1.6	\$487.90
Monsanto/Deltapine	DP341RF	594.3	a	27.5	2	48	3.5	42.0	1.38	2	85.1	1.6	\$483.50
Average		632.8		28.8	---	48	3.6	41.1	1.39	---	85.3	0.1	\$505.58
LSD§		NS		NS	---	---	NS	NS	NS	---	NS	NS	NS
OSL†		0.4109		0.4067	---	---	0.4283	0.7934	0.9569	---	0.5726	0.6810	0.5721
CV‡		7.1		7.4	---	---	6.5	3.8	0.9	---	0.7	125.2	9.1

* 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).

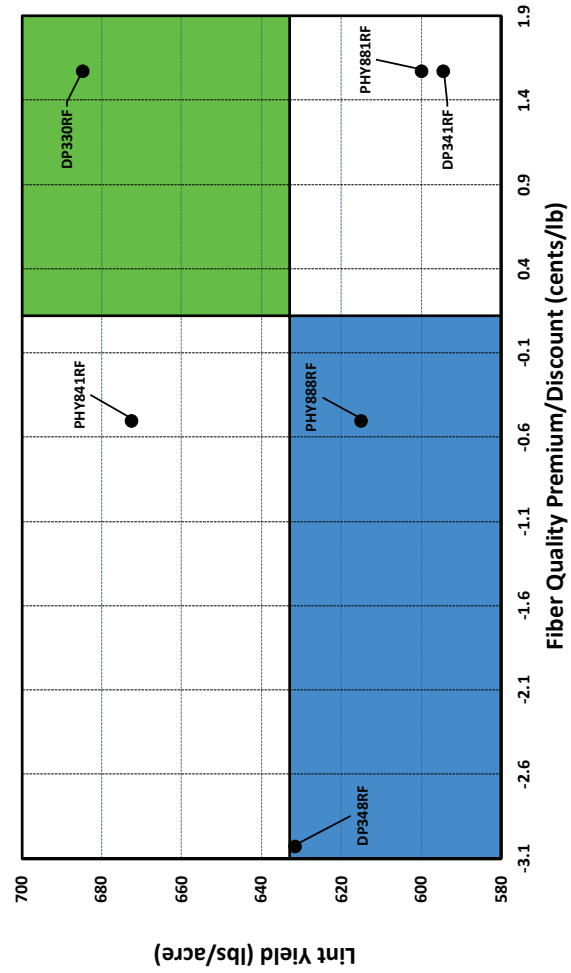
** Value calculated from CCC loan schedule base price of \$0.7977/lb + premium/discount

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodea Above White Flower (NAWF)
DP330RF	2.8	7.0	33.7	5.5
DP341RF	3.0	7.0	38.6	6.4
DP348RF	3.1	7.5	38.5	7.4
PHY841RF	2.5	7.5	35.5	5.7
PHY881RF	2.7	7.5	37.2	6.7
PHY888RF	3.3	8.0	35.4	7.3
Mean	2.9	7.4	36.5	6.5



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCVT location Maricopa (Ak-Chin), AZ, 2017

Yield and fiber quality data for The University of Arizona ELS (Pima) Cotton Variety Testing Program, Thatcher, AZ, 2017.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent		Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
				Lint	Lint									
Monsanto/Deltapine	DP341RF	1,304.8	a	31.8	1	1	50	4.1	44.1	1.45	1	85.9	1.6	\$1,061.48
Dow/Phytogen	PHY881RF	1,300.8	a	32.5	1	1	51	4.2	42.7	1.47	1	85.9	1.6	\$1,058.20
Dow/Phytogen	PHY841RF	1,296.4	a	33.1	1	1	51	4.3	43.6	1.45	1	86.4	1.6	\$1,054.59
Dow/Phytogen	PHY888RF	1,268.9	ab	32.4	1	1	52	4.2	43.5	1.50	1	87.2	1.5	\$1,031.17
Monsanto/Deltapine	DP348RF	1,222.0	bc	32.0	1	1	48	3.9	43.6	1.41	1	86.3	1.6	\$994.11
Monsanto/Deltapine	DP330RF	1,197.9	c	30.8	1	1	49	3.7	42.3	1.43	1	85.7	1.6	\$974.46
Average		1,265.1		32.1	---	---	50	4.1	43.3	1.45	---	86.2	1.6	\$1,029.00
LSD§		69.5		NS	---	---	2	0.2	1.7	0.04	---	NS	NS	\$56.47
OSL†		0.0456		0.1268	---	---	0.0050	0.0004	0.2603	0.0062	---	0.2806	0.4597	0.0465
CV‡		3		2.9	---	---	1.8	2.7	2.1	1.5	---	0.7	3.8	3.0

* 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 \$0.7977/lb + premium/discount

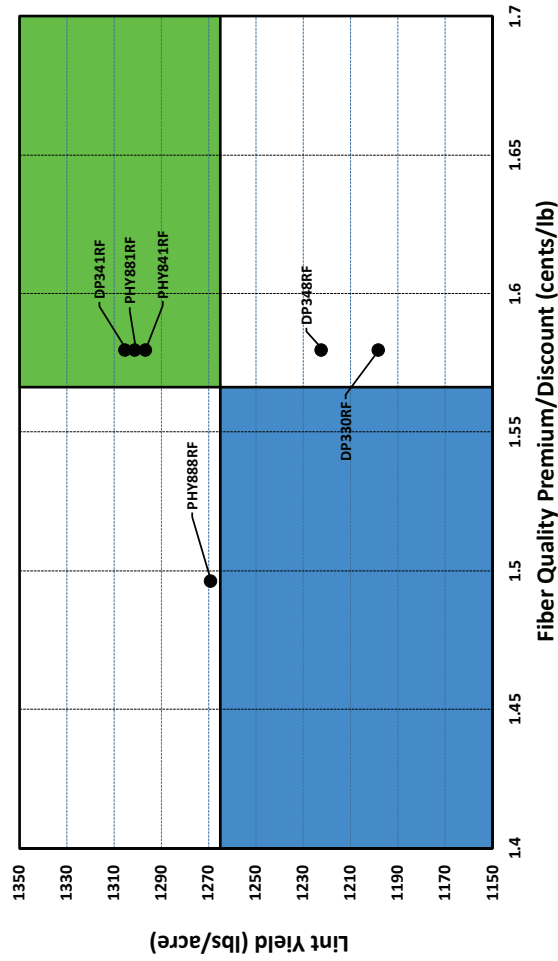
§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Early and mid-season data collected for the University of Arizona ELS (Pima) Cotton Variety Testing Program, Maricopa (Ak-Chin), AZ, 2017.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodea Above White Flower (NAWF)
DP330RF	2.8	7.7	27.2	3.4
DP341RF	3.0	6.7	27.5	4.0
DP348RF	3.5	7.0	28.6	3.5
PHY841RF	2.2	5.3	27.5	4.1
PHY881RF	2.5	7.7	27.2	3.9
PHY888RF	2.3	6.7	25.6	4.1
Mean	2.7	6.8	27.2	3.8



Lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the PCVT location Thatcher, AZ, 2017



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