2016

Cotton Variety Testing Results

COLLEGE OF AGRICULTURE & LIFE SCIENCES
Cooperative Extension

Cooperative Extension
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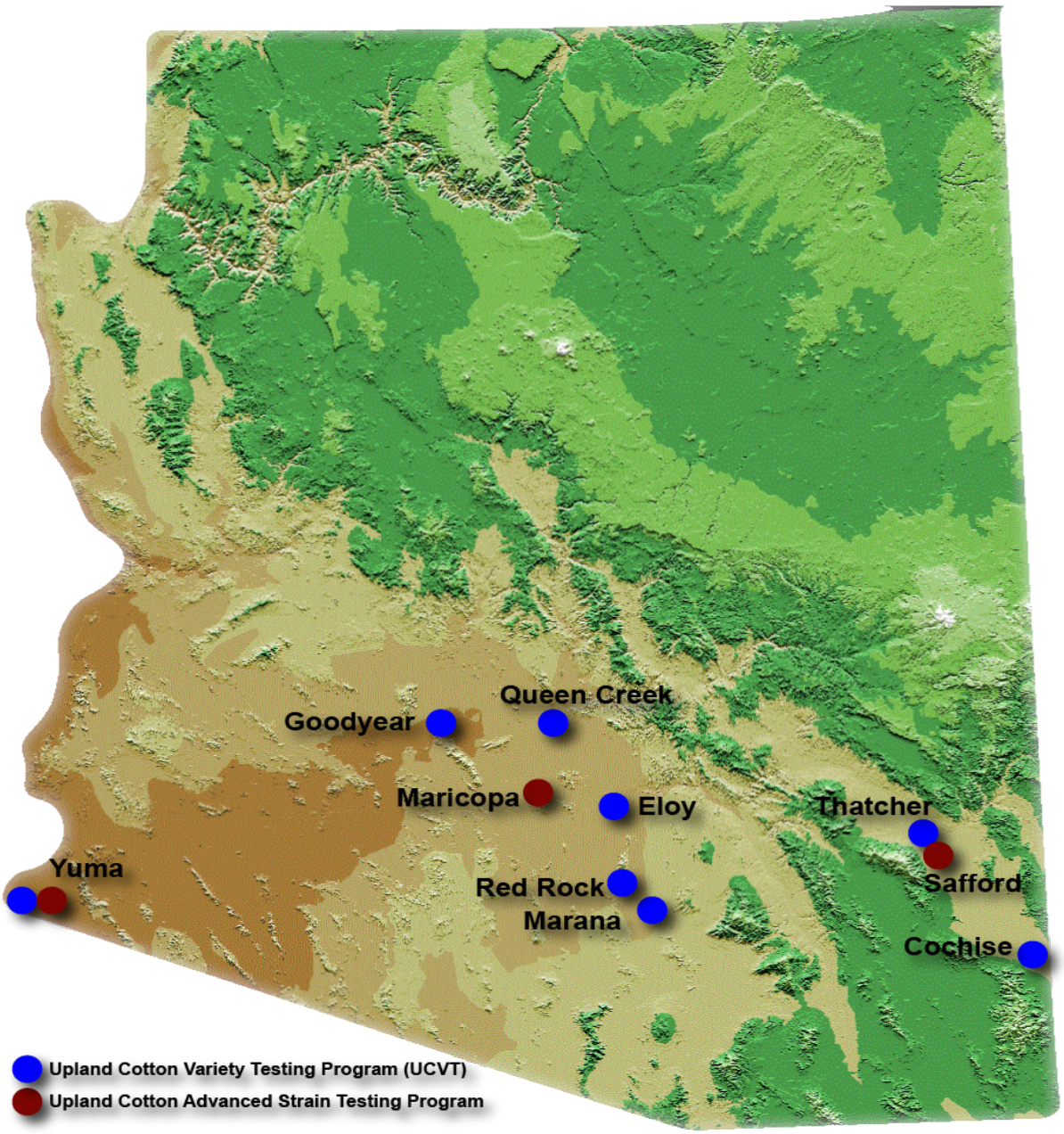
Queen Creek
Goodyear
Maricopa
Eloy
Thatcher
Yuma
Safford
Red Rock
Marana
Cochise
Upland Cotton Variety Testing Program (UCVT)
Upland Cotton Advanced Strain Testing Program

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 2016.

The table found below contains 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 2016. 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 presented at the bottom of each table. Included this year are early season data of stand count and vigor ratings along with mid-season data including plant height and nodes above white flower (NAWF) collected at early to mid bloom. For each location of the UCVT trial a figure plotting lint yield as a function of fiber premium/discount is presented. The vertical line 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 2016 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.

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Location and agronomic information for the University of Arizona Upland Cotton Advanced Strain Testing Program, 2016.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	121	32.709	-114.705	5/17/2016	6/7/2016	7/7/2016	10/5/2016	11/15/2016	12/19/2016	Gadsden Clay	Furrow
Maricopa	1191	33.063	-111.971	4/26/2016	6/13/2016	7/14/2016	9/8/2016	10/28/2016	11/28/2016	Casa Grande Sandy Clay Loam	Furrow
Safford	2960	32.813	-109.679	5/5/2016	6/6/2016	7/6/2016	9/6/2016	10/23/2016	11/17/2016	Grabe Clay Loam	Furrow

Location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) Program, 2016.

Location	Elevation	Latitude	Longitude	Planting Date	Early Season Data	Mid-Season Data	Final Irrigation	Defoliation Date	Harvest Date	Soil Type	Irrigation Technique
Yuma	111	32.642	-114.676	3/16/2016	4/19/2016	---	8/2/2016	9/2/2016	9/21/2016	Clay	Furrow
Goodyear	923	33.402	-112.380	5/26/2016	---	8/10/2016	9/15/2016	10/27/2016	12/1/2016	Loam	Flood
Eloy	1498	32.841	-111.502	5/11/2016	6/2/2016	7/19/2016	9/20/2016	11/15/2016	12/13/2016	Sandy Loam	Furrow
Queen Creek	1548	33.169	-111.497	4/15/2016	6/2/2016	6/29/2016	9/12/2016	10/21/2016	11/15/2016	Loam	Furrow
Red Rock	1851	32.545	-111.357	5/5/2016	6/2/2016	7/19/2016	9/12/2016	10/24/2016	11/14/2016	Sandy Loam	Furrow
Marana	2011	32.438	-111.195	4/19/2016	6/2/2016	7/14/2016	9/15/2016	10/3/2016	10/17/2016	Sandy Loam	Furrow
Thatcher	2872	32.860	-109.772	4/29/2016	6/14/2016	7/20/2016	9/16/2016	10/3/2016	10/21/2016	Clay Loam	Subsurface Drip
Willcox	4079	32.012	-109.080	4/14/2016	6/15/2016	7/28/2016	9/4/2016	10/15/2016	11/7/2016	Silty Clay Loam	Center Pivot

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

Seed Company	Variety	Lint Yield (lbs/ acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micro-naire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** ($/acre)
Americot/NexGen	AMX1601B2XF	1,943.3	a	43.2	31	39	5.2	36.9	1.21	3	83.7	2.2	$1,054.81
Monsanto/Deltapine	DP1725B2XF	1,671.2	b	44.6	31	39	4.8	34.1	1.22	3	81.2	4.3	$940.64
Monsanto/Deltapine	DP1549B2XF	1,594.0	bc	41.0	31	39	4.7	35.3	1.20	3	81.1	4.3	$896.70
Premium Cotton Genetics	0708-806-W903	1,496.2	bcd	37.0	31	38	5.1	35.1	1.20	3	81.9	2.2	$810.59
Monsanto/Deltapine	DP1044B2RF	1,488.9	bcd	38.7	31	38	5.1	34.3	1.19	3	81.0	1.6	$796.96
Monsanto/Deltapine	15R556B2XF	1,480.2	bcd	47.7	31	39	5.0	36.5	1.21	3	82.5	3.1	$813.57
Americot/NexGen	NG5007B2XF	1,466.3	bcd	41.9	31	39	4.6	32.3	1.21	3	80.3	3.5	$814.30
Americot/NexGen	NG3406B2XF	1,367.3	cde	42.3	31	37	4.9	32.1	1.15	3	82.4	2.9	$750.49
Bayer	FM1953GLTP	1,365.3	cde	41.1	31	39	5.0	34.0	1.20	3	82.1	2.8	$747.34
Monsanto/Deltapine	16R232B2XF	1,353.9	cde	41.2	31	41	5.1	38.2	1.26	3	81.3	2.2	$732.53
Monsanto/Deltapine	16R228NRB2XF	1,323.3	def	46.3	31	40	4.8	35.0	1.24	3	81.5	3.4	$731.62
Monsanto/Deltapine	16R252NRB2XF	1,308.2	defg	42.9	31	39	5.1	35.0	1.21	3	82.2	2.6	$713.02
Bayer/FiberMax	FM1830GLT	1,302.5	defg	41.7	31	38	5.0	34.7	1.20	3	83.3	3.2	$718.96
Monsanto/Deltapine	16R225NRB2XF	1,294.1	defg	46.8	31	39	4.8	34.7	1.23	3	81.7	3.4	$714.23
Monsanto/Deltapine	16R242NRB2XF	1,262.1	defgh	41.6	31	39	5.2	37.8	1.23	3	81.6	1.7	$677.88
Bayer	BX1737GLT	1,171.3	efghi	40.0	31	39	5.1	33.2	1.21	3	81.6	1.7	$628.51
Monsanto/Deltapine	16R229B2XF	1,148.2	efghij	41.1	31	36	4.9	32.9	1.13	3	81.6	2.9	$629.37
Americot/NexGen	NG4545B2XF	1,131.0	efghijk	39.8	31	38	4.6	35.0	1.20	3	81.8	4.7	$641.27
Bayer	BX1775GLTP	1,110.0	fghijk	39.0	31	39	4.7	33.7	1.23	3	81.7	4.3	$624.37
Bayer/Stoneville	ST4949GLT	1,105.0	fghijk	42.4	31	38	4.9	34.1	1.20	3	82.1	3.6	$613.12
Bayer	ST5020GLT	1,104.5	fghijk	42.0	31	39	4.8	35.3	1.21	3	81.2	3.3	$610.94
Bayer/Stoneville	ST4946GLB2	1,093.7	fghijk	42.5	31	38	4.8	35.4	1.18	3	81.7	3.6	$609.73
Premium Cotton Genetics	0713-806-W903	1,080.0	ghijk	35.6	31	39	5.1	35.6	1.22	3	81.1	3.0	$593.37
Monsanto/Deltapine	DP1747NRB2XF	1,041.2	hijk	45.3	31	38	5.2	35.1	1.19	3	82.0	2.6	$568.57
Americot/NexGen	NG3517B2XF	1,019.1	ijk	38.7	31	38	4.4	34.5	1.20	3	81.3	3.8	$567.75
Americot/NexGen	NG3500XF	991.1	ijkl	42.3	31	38	4.8	35.6	1.20	3	82.2	3.6	$550.10
Monsanto/Deltapine	16R251NRB2XF	978.7	ijkl	46.4	31	40	4.7	35.9	1.25	3	81.3	4.3	$550.89
Premium Cotton Genetics	0708-808-W905	965.0	ijkl	33.3	31	38	4.8	34.3	1.20	3	81.5	3.3	$534.34
Premium Cotton Genetics	0710-806-W904	946.1	ijkl	33.8	31	36	5.2	34.3	1.14	3	82.2	2.0	$510.36
Bayer	BX1733GLT	945.8	ijkl	41.2	31	37	4.9	33.6	1.17	3	81.8	2.7	$518.26
Premium Cotton Genetics	0702-805-W901	907.0	jkl	32.2	31	40	4.8	38.5	1.25	3	81.3	3.9	$507.22
Bayer	BX1774GLTP	904.6	kl	38.4	31	38	4.7	32.6	1.19	3	82.4	4.7	$512.52
Bayer	BX1739GLT	755.4	l	42.1	31	39	5.1	35.0	1.22	3	81.3	2.6	$411.29
Average		1,213.5		41.1	---	38	4.9	34.8	1.20	---	81.7	3.1	$668.49
LSD§		242.9		2.4	---	1	0.4	2.2	0.03	---	NS	NS	$131.92
OSL†		<0.0001		<0.0001	---	<0.0001	0.005	<0.0001	<0.0001	---	0.558	0.086	<0.0001
CV‡		14.2		4.2	---	2.1	6.1	4.5	1.8	---	1.7	45.5	14.0

*Means followed by the same letter are not significantly different by Fisher's Protected LSD at 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 Strain Testing Program, Yuma, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
0702-805-W901	3.6	7.3	55.4	5.3
0708-806-W903	3.1	8.0	49.3	4.9
0708-808-W905	3.6	7.3	56.0	5.4
0710-806-W904	3.5	7.7	52.1	4.5
0713-806-W903	3.6	7.0	54.8	6.2
15R556B2XF	2.4	4.7	52.3	4.8
16R225NRB2XF	2.6	6.0	52.4	6.3
16R228NRB2XF	2.7	5.3	51.2	5.6
16R229B2XF	2.5	5.3	50.3	5.6
16R232B2XF	3.3	7.3	59.0	5.9
16R242NRB2XF	3.2	6.3	51.3	5.2
16R251NRB2XF	3.1	6.0	51.2	5.4
16R252NRB2XF	3.2	6.7	54.2	5.8
AMX1601B2XF	2.4	5.3	49.6	4.7
BX1733GLT	3.2	6.7	49.8	5.4
BX1737GLT	3.4	7.3	52.2	4.9
BX1739GLT	2.7	6.0	56.6	5.7
BX1774GLTP	3.5	6.7	49.3	4.7
BX1775GLTP	3.8	7.7	53.4	5.3
DP1044B2RF	3.4	6.7	50.0	5.4
DP1549B2XF	3.2	6.7	54.5	5.9
DP1725B2XF	3.0	6.0	52.5	5.1
DP1747NRB2XF	2.6	6.0	52.5	5.6
FM1830GLT	2.9	5.3	50.9	5.1
FM1953GLTP	3.7	7.3	50.2	5.7
NG3406B2XF	3.3	7.3	53.1	5.0
NG3500XF	3.5	7.0	50.8	5.2
NG3517B2XF	3.3	7.0	53.5	4.8
NG4545B2XF	2.9	6.3	54.7	5.3
NG5007B2XF	2.6	6.0	52.0	5.7
ST4946GLB2	3.1	6.3	49.7	4.6
ST4949GLT	1.8	4.7	54.1	5.0
ST5020GLT	3.4	7.0	51.4	5.0
Mean	3.1	6.5	52.5	5.3

Yield and fiber quality data for the University of Arizona Upland Cotton Advanced Strain Testing Program, Maricopa, AZ 2016.

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	16R252NRB2XF	2,689.0	a	43.0	31	38	5.1	33.6	1.16	3	81.5	2.3	$1,460.41
Monsanto/Deltapine	16R228NRB2XF	2,667.6	a	44.0	31	40	4.9	35.5	1.24	3	81.4	3.6	$1,484.57
Monsanto/Deltapine	DP1549B2XF	2,648.1	a	39.9	31	38	4.5	34.8	1.20	3	80.3	3.4	$1,467.74
Monsanto/Deltapine	DP1747NRB2XF	2,565.0	ab	44.0	31	38	4.8	34.4	1.19	3	80.4	3.9	$1,433.71
Monsanto/Deltapine	16R225NRB2XF	2,520.4	abc	43.8	31	39	4.7	35.7	1.23	3	80.8	3.8	$1,404.86
Monsanto/Deltapine	16R229B2XF	2,469.5	abcd	41.7	31	37	5.2	32.8	1.14	3	80.9	1.4	$1,318.87
Monsanto/Deltapine	DP1725B2XF	2,396.3	bcde	42.5	31	38	5.0	32.2	1.19	3	79.7	2.6	$1,307.25
Monsanto/Deltapine	DP1044B2RF	2,377.2	bcdef	38.3	31	38	5.0	34.2	1.19	3	81.0	3.2	$1,310.46
Monsanto/Deltapine	16R232B2XF	2,375.7	bcdef	37.1	31	40	5.0	36.2	1.24	3	80.9	3.8	$1,324.13
Monsanto/Deltapine	15R556B2XF	2,362.7	bcdef	44.9	31	38	4.6	33.9	1.20	3	80.8	4.5	$1,334.97
Bayer	BX1733GLT	2,349.1	bcdefg	39.2	31	39	4.7	34.9	1.22	3	79.6	3.8	$1,310.79
Bayer	ST4949GLT	2,344.0	bcdefgh	42.8	31	37	5.0	33.4	1.17	3	81.3	3.5	$1,298.84
Bayer/FiberMax	FM1830GLT	2,326.0	cdefgh	41.0	31	39	5.0	34.7	1.23	3	80.6	3.2	$1,282.31
Americot/NexGen	NG5007B2XF	2,311.2	cdefghi	41.7	31	39	4.8	31.9	1.20	3	79.9	3.8	$1,290.15
Premium Cotton Genetics	PCG612	2,280.7	defghij	37.9	31	38	5.4	35.2	1.19	3	80.5	0.7	$1,200.40
Monsanto/Deltapine	16R242NRB2XF	2,268.0	defghij	40.5	31	40	5.0	38.9	1.24	3	80.8	2.6	$1,238.46
Monsanto/Deltapine	16R251NRB2XF	2,248.0	efghij	42.6	31	40	4.7	33.4	1.24	3	79.6	3.3	$1,241.43
Americot/NexGen	AMX1601B2XF	2,210.5	efghijk	41.9	31	39	5.0	35.1	1.20	3	81.0	3.3	$1,223.46
Bayer	ST5020GLT	2,198.3	efghijk	40.2	31	39	5.0	34.9	1.22	3	80.3	3.0	$1,207.99
Premium Cotton Genetics	0713-806-W903	2,189.2	efghijk	36.8	31	39	5.1	35.5	1.21	3	80.8	1.5	$1,169.49
Americot/NexGen	NG3406B2XF	2,171.7	fghijk	39.9	31	37	4.9	32.6	1.16	3	82.2	3.7	$1,208.90
Premium Cotton Genetics	PCG604	2,136.5	ghijk	38.4	31	39	4.7	35.3	1.23	3	80.4	4.0	$1,195.34
Bayer	BX1737GLT	2,123.3	hijkl	38.8	31	39	4.6	32.9	1.23	3	80.1	4.0	$1,189.65
Premium Cotton Genetics	PCG605	2,097.3	ijklm	35.8	31	39	5.3	35.5	1.22	3	80.7	1.2	$1,116.13
Premium Cotton Genetics	0713-809-W904	2,092.5	ijklm	38.1	31	38	5.4	34.3	1.19	3	80.1	0.6	$1,100.46
Bayer	BX1775GLTP	2,075.8	jklmn	39.9	31	39	4.7	32.8	1.22	3	80.3	3.3	$1,146.08
Americot/NexGen	NG4545B2XF	1,994.5	klmno	39.7	31	38	4.7	34.4	1.19	3	80.5	4.1	$1,118.58
Bayer	BX1776GLTP	1,910.3	lmnop	38.5	31	38	4.9	32.3	1.19	3	80.4	3.5	$1,059.67
Bayer	BX1774GLTP	1,895.1	nmopq	38.5	31	39	4.6	33.9	1.21	3	80.3	4.1	$1,062.82
Premium Cotton Genetics	PCG615	1,862.5	nopq	36.5	31	40	5.2	34.9	1.24	3	81.1	1.7	$999.42
Bayer	FM1953GLTP	1,815.2	opq	38.6	31	39	4.5	34.0	1.22	3	80.1	4.0	$1,016.10
Americot/NexGen	NG3517B2XF	1,748.4	pq	37.6	31	39	4.5	36.0	1.23	3	80.8	4.1	$981.33
Americot/NexGen	NG3500XF	1,697.6	pq	39.4	31	39	4.8	36.4	1.21	3	81.1	3.8	$945.52
Bayer	BX1739GLT	1,683.6	q	42.4	31	40	4.8	34.0	1.24	3	78.9	2.6	$918.89
Average		2,208.8		40.2	---	39	4.9	34.4	1.21	---	80.6	3.1	$1,216.74
LSD§		221.4		1.7	---	1	0.3	1.7	0.04	---	1.0	1.50	$120.36
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	---	<0.0001	<0.0001	<0.0001
CV‡		7.1		3.0	---	2.4	4.8	3.5	2.2	---	0.9	34.3	7.1

*Means followed by the same letter are not significantly different by Fisher's Protected LSD at 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 Strain Testing Program, Maricopa, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
0713-806-W903	5.0	5.3	28.8	6.0
0713-809-W904	4.8	5.3	31.1	5.9
15R556B2XF	4.4	4.5	28.7	5.8
16R225NRB2XF	4.2	4.8	27.0	5.9
16R228NRB2XF	4.2	4.0	29.6	6.2
16R229B2XF	4.1	3.8	29.7	6.6
16R232B2XF	4.7	4.5	30.6	5.9
16R242NRB2XF	4.5	5.0	29.9	5.8
16R251NRB2XF	3.6	3.3	28.9	6.7
16R252NRB2XF	3.7	4.3	30.8	5.8
AMX1601B2XF	4.6	4.0	28.2	5.8
BX1733GLT	4.9	5.3	30.7	5.8
BX1737GLT	4.9	5.3	28.1	6.1
BX1739GLT	4.6	5.3	29.3	6.5
BX1774GLTP	4.5	5.0	28.2	5.9
BX1775GLTP	5.2	5.5	27.7	6.0
BX1776GLTP	5.1	6.3	27.1	6.7
DP1044B2RF	4.1	4.0	29.0	6.0
DP1549B2XF	4.6	5.3	29.6	6.3
DP1725B2XF	4.3	4.3	27.6	5.8
DP1747NRB2XF	4.0	4.0	29.7	6.1
FM1830GLT	4.6	4.0	28.1	6.0
FM1953GLTP	3.6	4.0	27.9	5.6
NG3406B2XF	4.8	5.8	29.8	5.4
NG3500XF	4.4	5.0	31.0	6.4
NG3517B2XF	4.6	4.3	30.0	5.9
NG4545B2XF	4.5	5.0	32.5	6.2
NG5007B2XF	4.1	3.8	30.4	5.6
PCG604	5.1	6.3	31.1	6.3
PCG605	4.5	4.8	30.6	6.2
PCG612	4.9	6.3	29.6	6.0
PCG615	5.1	6.3	28.3	6.0
ST4949GLT	3.7	4.3	28.5	6.5
ST5020GLT	4.6	5.5	29.1	5.4
Mean	4.5	4.8	29.3	6.0

Early and mid-season data collected for the University of Arizona Upland Cotton Advanced Strain Testing Program, Safford, AZ 2016.

Seed Company	Variety	Lint Yield (lbs/acre)	Percent Loss	Adjusted 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	DP1044B2RF	740.6	66.0	2,177.5	a	40.2	31	38	4.4	32.2	1.17	3	81.2	4.4	$1,228.95
Bayer	BX1734GLT	884.8	58.5	2,126.0	ab	42.2	31	38	4.9	34.4	1.18	3	82.4	3.5	$1,180.35
Bayer	FM1888GL	1061.2	49.8	2,108.2	abc	43.4	31	39	4.9	34.3	1.21	3	83.3	3.6	$1,173.04
Monsanto/Deltapine	DP1549B2XF	912.6	56.6	2,097.9	abcd	43.4	31	37	4.3	31.9	1.17	3	81.2	4.4	$1,183.11
Bayer	BX1774GLTP	797.5	61.7	2,083.5	abcde	39.5	31	38	4.2	31.3	1.19	3	81.1	4.4	$1,175.84
Monsanto/Deltapine	16R251NRB2XF	883.5	57.2	2,063.6	abcdef	44.6	31	39	4.5	31.8	1.21	3	81.4	4.3	$1,161.53
Monsanto/Deltapine	16R242NRB2XF	850.7	58.7	2,056.8	abcdef	41.7	31	39	4.9	36.1	1.22	3	82.6	3.4	$1,140.40
Premium Cotton Genetics	0713-809-W904	708.4	65.0	2,022.6	bcdefg	40.4	31	37	5.0	31.6	1.14	3	81.2	2.3	$1,097.76
Monsanto/Deltapine	DP1747NRB2XF	708.4	64.5	1,994.1	cdefgh	45.0	31	37	4.4	30.9	1.16	3	81.0	4.1	$1,118.60
Monsanto/Deltapine	DP1725B2XF	442.8	77.7	1,985.1	cdefgh	45.2	31	37	4.8	29.6	1.15	3	80.8	3.3	$1,097.27
Bayer	BX1735GLT	1086.3	45.0	1,971.0	defgh	39.6	31	40	4.0	34.4	1.26	3	82.2	4.7	$1,116.89
Monsanto/Deltapine	15R556B2XF	862.2	56.2	1,968.6	defghi	47.0	31	39	4.0	32.5	1.21	3	80.5	4.1	$1,104.53
Premium Cotton Genetics	PCG615	646.8	67.1	1,963.1	efghij	38.6	31	39	4.7	33.4	1.21	3	81.8	4.5	$1,108.65
Bayer/Stoneville	ST4946GLB2	545.9	72.2	1,962.4	efghij	41.3	31	38	4.5	33.0	1.18	3	81.6	4.3	$1,104.89
Premium Cotton Genetics	0708-806-W903	543.5	72.5	1,958.1	efghij	40.8	31	39	4.6	35.0	1.21	3	82.6	4.5	$1,106.95
Bayer/FiberMax	FM1830GLT	796.8	59.3	1,946.3	fghij	43.3	31	39	4.6	32.9	1.23	3	81.6	4.4	$1,097.58
Bayer	BX1733GLT	642.8	66.5	1,915.1	ghij	42.2	31	38	4.5	33.1	1.18	3	81.4	4.4	$1,080.12
Bayer/Stoneville	ST4949GLT	627.7	67.1	1,906.8	ghij	43.9	31	37	4.6	30.2	1.16	3	80.3	3.7	$1,061.69
Monsanto/Deltapine	16R252NRB2XF	749.1	60.3	1,881.9	hijk	44.4	31	37	4.6	31.0	1.16	3	80.2	3.8	$1,050.13
Bayer/FiberMax	FM1911GLT	1027.2	44.4	1,839.6	ijkl	41.1	31	38	4.8	33.3	1.20	3	81.8	4.3	$1,035.94
Bayer	FM1953GLTP	732.7	60.3	1,837.0	jklm	40.4	31	39	4.3	32.7	1.22	3	82.1	4.6	$1,039.38
Premium Cotton Genetics	PCG611	529.5	70.2	1,764.5	klm	39.7	31	38	4.7	32.7	1.18	3	81.6	4.2	$992.16
Americot/NexGen	NG3517B2XF	592.5	66.1	1,745.6	lmn	39.1	31	39	4.5	32.8	1.20	3	82.6	4.7	$989.76
Americot/NexGen	NG3500XF	607.6	65.4	1,737.3	lmn	41.1	31	37	4.9	33.1	1.15	3	82.5	3.3	$961.74
Americot/NexGen	NG4545B2XF	610.3	64.8	1,730.1	lmn	40.7	31	37	4.8	32.3	1.16	3	80.5	3.9	$966.76
Americot/NexGen	NG3406B2XF	381.3	77.7	1,708.0	mn	42.3	31	37	4.4	31.2	1.16	3	82.0	4.3	$961.17
Monsanto/Deltapine	16R232B2XF	535.1	68.6	1,693.5	n	38.0	31	39	4.4	35.4	1.21	3	82.7	4.7	$959.65
Americot/NexGen	AMX1601B2XF	434.9	74.4	1,687.3	n	44.3	31	39	4.9	34.1	1.20	3	81.4	3.9	$943.74
Monsanto/Deltapine	16R228NRB2XF	468.7	72.3	1,686.5	n	43.3	31	38	3.8	32.3	1.19	3	80.6	3.8	$941.41
Monsanto/Deltapine	16R225NRB2XF	467.0	70.0	1,553.0	o	43.9	31	39	3.8	32.8	1.22	3	81.3	4.4	$876.14
Bayer	BX1736GLT	1006.0	35.2	1,551.8	o	42.7	31	39	4.1	33.6	1.23	3	82.0	4.6	$878.09
Premium Cotton Genetics	PCG612	606.5	60.5	1,531.2	o	39.6	31	37	5.0	32.0	1.15	3	81.0	2.8	$840.31
Monsanto/Deltapine	16R229B2XF	519.6	65.9	1,525.3	o	41.7	31	36	4.6	30.2	1.11	3	81.2	3.7	$850.51
Americot/NexGen	NG5007B2XF	399.9	73.7	1,508.2	o	43.2	31	37	4.5	28.6	1.15	3	80.7	3.6	$838.85
Premium Cotton Genetics	PCG616	543.5	63.6	1,491.6	o	38.1	31	38	4.6	31.2	1.17	3	79.2	3.3	$824.61
Average		687.5	63.2	1853.5		41.9	---	38	4.5	32.5	1.19	---	81.5	4.0	$1,038.50
LSD§		114.7	3.9	130.0		1.7	---	1	0.3	1.5	0.03	---	NS	1.0	$79.91
OSL†		<0.0001	<0.0001	<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	---	0.053	0.000	<0.0001
CV‡		12.0	4.5	5.0		3.0	---	2.1	4.7	3.3	1.8	---	1.5	18.2	5.5

*Means followed by the same letter are not significantly different by Fisher's Protected LSD at 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 Strain Testing Program, Safford, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
0708-806-W903	4.4	6.3	32.0	5.4
0713-809-W904	3.6	6.0	31.3	5.8
15R556B2XF	2.0	3.3	31.8	7.3
16R225NRB2XF	1.9	3.3	30.7	6.4
16R228NRB2XF	1.9	3.7	31.0	5.4
16R229B2XF	2.6	4.5	33.8	6.2
16R232B2XF	3.7	5.7	34.1	5.7
16R242NRB2XF	4.3	6.3	30.7	5.4
16R251NRB2XF	2.3	4.0	31.8	6.9
16R252NRB2XF	3.7	6.0	30.5	6.8
AMX1601B2XF	2.3	4.3	30.7	5.4
BX1733GLT	3.9	5.7	31.8	6.4
BX1734GLT	4.0	5.7	33.1	5.5
BX1735GLT	3.9	6.3	30.5	5.7
BX1736GLT	3.3	5.7	30.6	5.4
BX1774GLTP	3.8	5.3	29.2	5.3
DP1044B2RF	3.4	5.0	31.0	6.3
DP1549B2XF	3.6	5.3	30.6	6.0
DP1725B2XF	2.7	4.3	28.0	5.4
DP1747NRB2XF	3.3	5.3	30.6	6.1
FM1830GLT	3.6	5.3	30.7	6.2
FM1888GL	3.1	6.0	30.5	5.5
FM1911GLT	3.8	5.8	30.0	6.2
FM1953GLTP	4.2	6.0	30.1	6.0
NG3406B2XF	3.8	7.0	33.0	6.1
NG3500XF	3.9	6.0	32.6	6.0
NG3517B2XF	3.8	6.0	31.7	5.9
NG4545B2XF	4.5	6.7	30.4	5.9
NG5007B2XF	2.3	4.5	29.5	5.3
PCG611	4.1	6.7	29.5	5.8
PCG612	4.3	6.3	32.4	6.3
PCG615	3.4	6.3	31.2	5.3
PCG616	3.8	6.7	31.8	6.1
ST4946GLB2	3.2	5.3	31.7	5.7
ST4949GLT	3.0	5.0	30.6	5.9
Mean	3.5	5.5	31.1	5.9

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 Lint	Color Grade	Staple (32nds)	Micro-naire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * ($/acre)
Monsanto/Deltapine	DP1522B2XF	2,039.1	a	36.5	31	37	5.2	33.6	1.15	4	82.5	0.9	$1,077.70
Bayer/Stoneville	ST4946GLB2	1,890.5	b	36.7	21	37	5.1	33.2	1.14	3	81.3	1.8	$1,017.35
Monsanto/Deltapine	DP1612B2XF	1,809.8	bc	34.4	31	37	4.9	33.3	1.19	4	80.7	1.8	$973.49
Dow/Phytogen	PHY333WRF	1,791.7	bcd	35.4	31	38	4.5	33.9	1.21	4	80.0	2.1	$968.92
Dow/Phytogen	PHY312WRF	1,731.3	cde	34.6	31	37	4.7	32.9	1.18	3	81.6	4.0	$969.10
CPS/DynagGro	DG3385B2XF	1,687.8	de	34.1	21	37	5.0	31.0	1.14	2	82.5	3.9	$941.83
Bayer/Stoneville	ST4949GLT	1,646.4	ef	36.1	31	37	5.1	33.3	1.17	4	81.6	1.5	$880.18
CPS/DynagGro	DG3757B2XF	1,541.8	f	37.8	21	37	5.2	31.1	1.16	2	81.8	1.7	$827.94
Average		1,767.3		35.7	---	37	5.0	32.8	1.17	3	81.5	2.2	$957.06
LSD§		115.2		1.5	---	NS	0.3	NS	0.04	1	NS	NS	$62.09
OSL†		<0.0001		0.001	---	0.678	0.001	0.123	0.040	0.007	0.173	0.063	<0.0001
CV‡		3.7		2.4	---	2.6	3.2	4.2	2.1	19.5	1.4	55.4	3.7

* 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, Yuma, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodea Above White Flower (NAWF)
DG3385B2XF	2.4	6.7		7.0
DG3757B2XF	2.1	6.3		7.7
DP1522B2XF	2.3	7.0		8.1
DP1612B2XF	2.4	7.7		6.9
PHY312WRF	2.2	6.3		7.4
PHY333WRF	2.0	6.0		7.2
ST4946GLB2	2.2	5.7		6.9
ST4949GLT	1.6	4.7		7.1
Mean	2.2	6.3		7.3

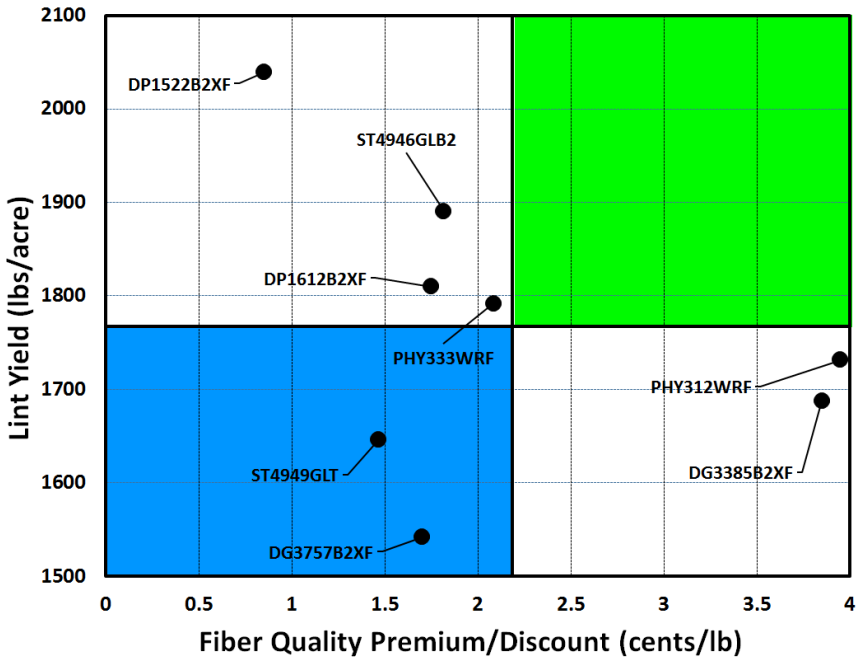


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Yuma, AZ, 2016.

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

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	DP1555B2RF	2,147.7	a	40.1	31	40	4.0	35.1	1.25	3	83.2	5.1	$1,226.34
Monsanto/Deltapine	DP1549B2XF	2,111.4	ab	38.8	31	39	3.8	33.6	1.20	3	82.0	5.4	$1,212.02
Dow/Phytogen	PHY444WRF	2,110.7	ab	37.6	31	42	3.9	34.7	1.30	3	83.9	5.0	$1,202.04
Dow/Phytogen	PHY333WRF	2,090.2	ab	37.5	41	39	4.3	33.0	1.22	6	83.4		$1,067.36
Bayer/Stoneville	ST4946GLB2	2,088.0	ab	36.0	31	38	4.7	34.6	1.18	4	83.6	2.5	$1,137.49
CPS/DynagGro	DG3385B2XF	1,972.1	ab	35.8	31	39	4.8	32.7	1.20	3	84.3	4.8	$1,120.12
Bayer/Stoneville	ST4949GLT	1,948.5	b	37.7	41	38	4.2	32.8	1.20	5	83.4	0.4	$1,020.03
CPS/DynagGro	DG3757B2XF	1,691.3	c	37.5	31	38	4.2	32.1	1.20	3	83.5	5.3	$968.70
Dow/Phytogen	PHY725RF	1,485.1	d	32.3	41	40	3.6	38.5	1.26	5	84.6	0.5	$779.37
Average		1,960.6		37.0	---	39	4.2	34.1	1.22	4	83.5	3.1	$1,081.50
LSD§		182.1		1.5	---	1	0.3	1.4	0.03	1	1.3	2.8	$129.24
OSL†		0.000		<0.0001	---	0.000	0.000	0.000	0.000	0.005	0.048	0.003	0.001
CV‡		4.1		1.8	---	1.1	3.5	1.8	1.2	16.5	0.7	39.2	5.2

* 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, Goodyear, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF			35.2	6.0
DG3757B2XF			34.2	7.5
DP1549B2XF			39.2	7.4
DP1555B2RF			35.6	7.5
PHY333WRF			39.1	5.5
PHY444WRF			36.1	6.0
PHY725RF			35.8	5.7
ST4946GLB2			34.6	5.7
ST4949GLT			35.8	6.9
Mean			36.2	6.5

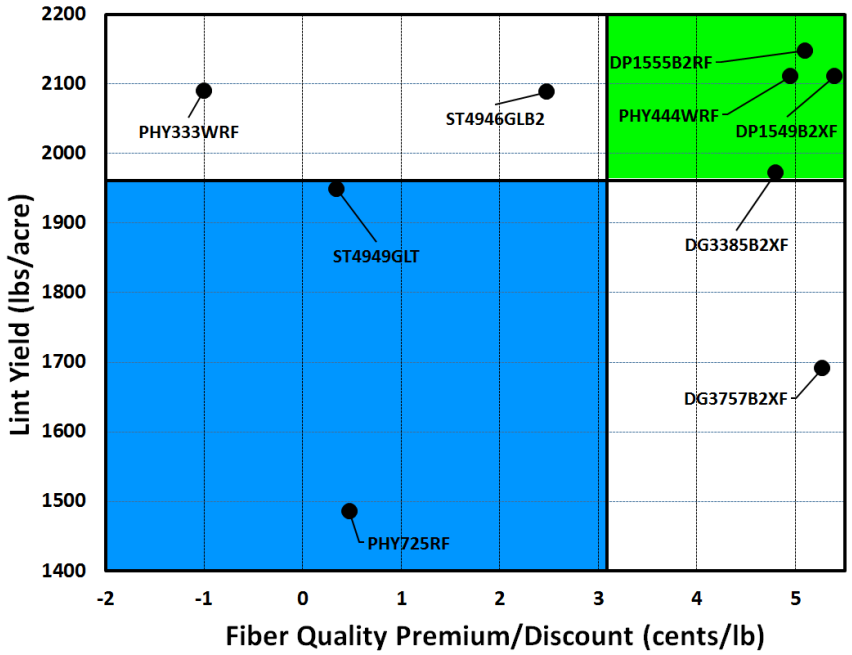


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Goodyear, AZ, 2016.

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

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	DP1044B2RF	1,894.0	a	36.1	41	37	4.8	31.5	1.15	3	82.5	2.9	$1,040.03
Bayer/FiberMax	FM1830GLT	1,857.8	ab	37.2	31	39	4.8	34.2	1.22	2	82.6	5.4	$1,065.68
Dow/Phytogen	PHY444WRF	1,799.9	abc	37.9	31	39	4.0	33.8	1.23	2	82.5	5.3	$1,031.63
CPS/DynagGro	DG3757B2XF	1,761.4	bc	37.8	31	37	4.8	31.2	1.17	2	83.0	5.2	$1,008.17
Monsanto/Deltapine	DP1549B2XF	1,702.1	cd	36.6	31	37	4.5	32.1	1.15	2	81.1	4.7	$965.11
Bayer/Stoneville	ST4949GLT	1,693.8	cd	36.8	31	37	4.7	32.1	1.16	3	82.5	4.0	$948.96
Dow/Phytogen	PHY333WRF	1,580.3	d	35.3	41	38	4.2	32.3	1.19	3	82.2	3.6	$878.07
CPS/DynagGro	DG3445B2XF	1,393.9	e	33.6	31	39	4.6	35.8	1.23	2	83.8	5.1	$796.36
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		0.044	---	0.008	0.000	0.000	0.001	0.003	0.002	<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

* 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, Queen Creek, AZ 2016.

Variety	Plant Population (plants/ foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3445B2XF	1.4	6.0	25.1	5.7
DG3757B2XF	2.2	7.3	28.8	7.0
DP1044B2RF	3.1	7.5	26.0	7.0
DP1549B2XF	2.6	7.8	24.6	6.2
FM1830GLT	2.2	7.0	23.4	6.2
PHY333WRF	2.0	7.3	28.0	6.2
PHY444WRF	1.7	6.5	25.5	6.2
ST4949GLT	1.7	6.0	26.1	6.6
Mean	2.1	6.9	25.9	6.4

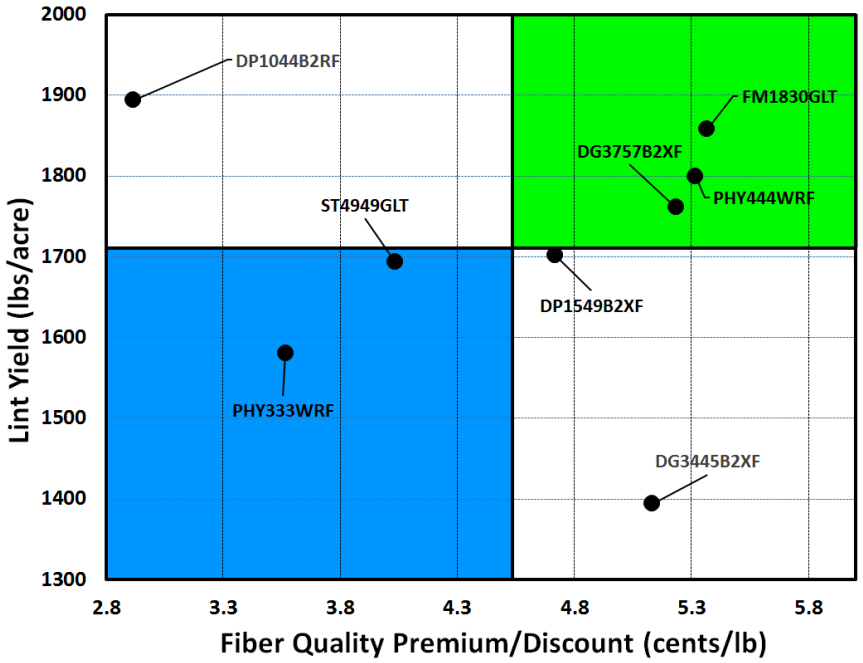


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Queen Creek, AZ, 2016.

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

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micro-naire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * ($/acre)
Dow/Phytogen	PHY333WRF	1,722.0	a	40.5	31	38	4.3	30.6	1.18	3	79.9	3.7	$958.85
Bayer/Stoneville	ST4949GLT	1,599.7	b	41.5	31	38	3.9	30.8	1.18	3	80.1	3.9	$894.29
Bayer/Stoneville	ST4946GLB2	1,586.1	bc	39.9	31	38	4.2	32.2	1.19	3	80.7	4.0	$887.47
Dow/Phytogen	PHY444WRF	1,560.8	bc	40.4	31	41	3.5	33.2	1.27	3	79.6	2.7	$853.37
Monsanto/Deltapine	DP1044B2RF	1,492.4	bc	38.2	31	36	4.2	30.5	1.12	3	80.3	3.1	$822.29
Monsanto/Deltapine	DP1549B2XF	1,483.5	c	40.6	31	37	3.5	31.7	1.16	3	79.4	1.9	$799.85
CPS/DynaGro	DG3445B2XF	1,360.4	d	37.4	31	39	3.8	33.9	1.22	3	80.5	4.2	$764.42
CPS/DynaGro	DG3757B2XF	1,302.4	d	41.1	31	36	4.1	30.3	1.14	3	80.3	3.4	$721.68
Average		1,513.4		39.9	---	38	3.9	31.6	1.18	3	80.1	3.3	$837.78
LSD§		113.9		1.7	---	2	NS	1.5	0.04	---	1.0	1.30	$72.73
OSL†		<0.0001		0.002	---	0.000	0.078	0.001	<0.0001	---	0.224	0.040	0.000
CV‡		4.3		2.4	---	2.3	8.6	2.8	2.0	---	0.7	23.0	5.0

* 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, Eloy, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3445B2XF	3.2	7.0	32.2	5.7
DG3757B2XF	3.2	6.3	32.5	5.0
DP1044B2RF	3.8	6.7	29.1	5.3
DP1549B2XF	3.5	7.0	33.0	5.5
PHY333WRF	3.6	7.7	33.5	5.3
PHY444WRF	3.7	7.0	31.8	5.3
ST4946GLB2	2.9	7.0	32.9	5.0
ST4949GLT	3.1	6.7	31.6	5.8
Mean	3.4	6.9	32.1	5.4

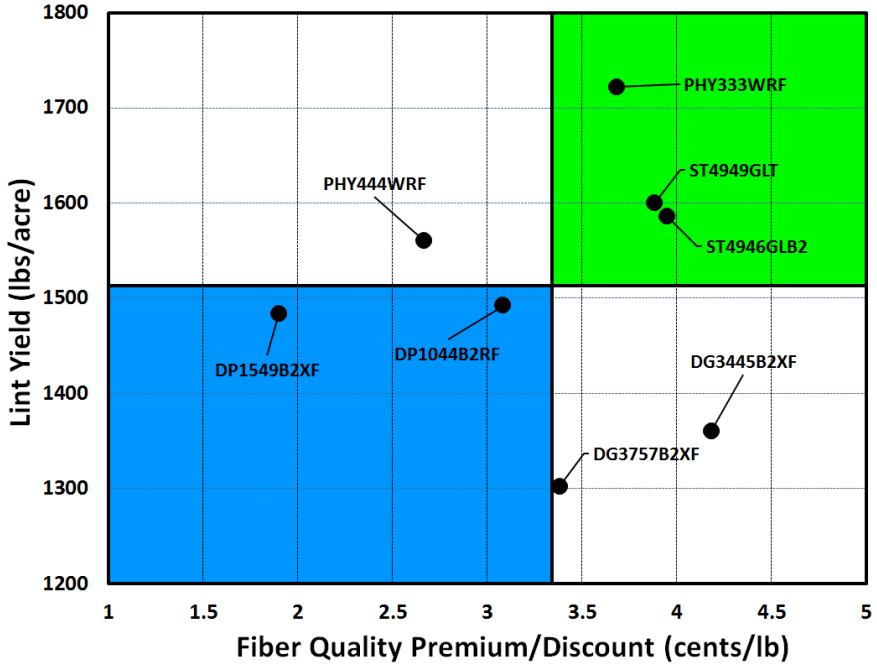


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Eloy, AZ, 2016.

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

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/Stoneville	ST4949GLT	2,171.6	a	38.5	21	38	4.6	31.4	1.19	3	82.0	5.1	$1,241.15
Monsanto/Deltapine	DP1044B2RF	2,019.8	a	36.4	21	38	4.8	32.7	1.20	3	83.6	5.2	$1,155.96
Monsanto/Deltapine	DP1549B2XF	2,011.2	a	37.4	21	38	4.4	33.3	1.19	2	82.3	5.6	$1,158.73
Dow/Phytogen	PHY312WRF	1,981.1	a	35.7	31	40	4.6	33.1	1.24	3	84.0	4.9	$1,128.13
CPS/DynagGro	DG3757B2XF	1,908.2	a	40.9	21	38	4.7	30.4	1.19	2	82.4	5.6	$1,099.45
Dow/Phytogen	PHY444WRF	1,885.9	a	38.6	21	39	4.3	32.8	1.23	2	82.1	5.8	$1,090.34
CPS/DynagGro	DG3385B2XF	1,869.8	a	38.1	21	38	4.9	31.4	1.19	2	83.5	5.8	$1,081.35
Bayer/Stoneville	ST4946GLB2	1,854.4	a	36.1	31	38	4.8	33.1	1.20	2	83.3	5.2	$1,061.80
Average		1,962.7		37.7	---	38	4.7	32.3	1.20	2	82.9	5.4	$1,127.11
LSD§		NS		1.6	---	NS	0.2	1.6	NS	1	1.2	0.60	NS
OSL†		0.628		0.000	---	0.096	0.002	0.011	0.062	0.013	0.013	0.028	0.713
CV‡		10.7		2.3	---	2.0	2.8	2.8	1.8	19.1	0.8	6.0	11.0

* 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, Red Rock, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF	2.2	7.0	35.2	6.3
DG3757B2XF	3.0	5.7	39.8	6.1
DP1044B2RF	2.9	6.0	36.9	6.7
DP1549B2XF	2.8	6.3	36.9	7.2
PHY312WRF	2.2	6.0	39.2	6.9
PHY444WRF	2.1	5.7	39.6	6.5
ST4946GLB2	2.7	6.3	36.9	6.8
ST4949GLT	1.8	5.0	36.5	6.9
Mean	2.5	6.0	37.6	6.7

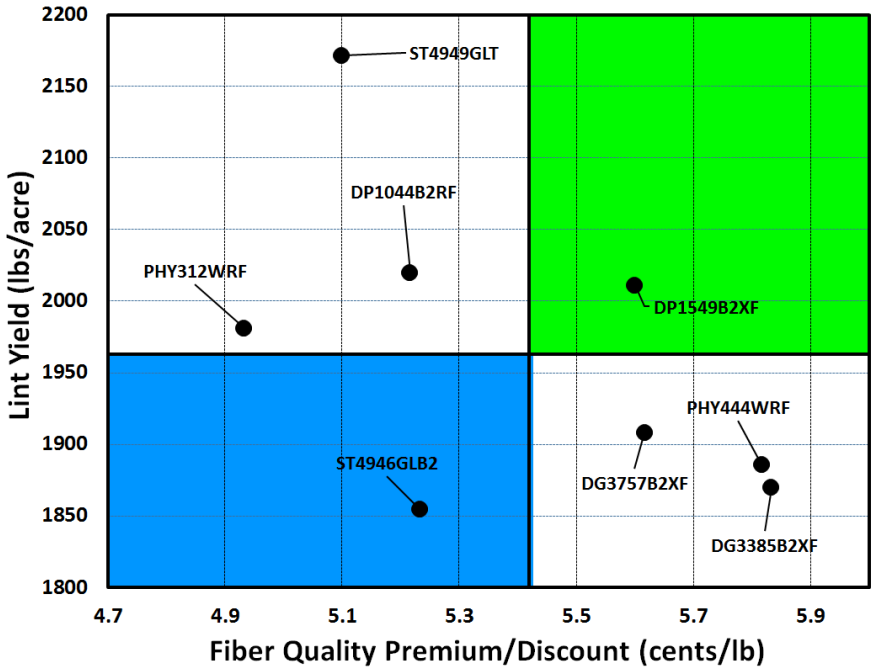


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Red Rock, AZ, 2016.

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

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	**PHY444WRF**	979.2	a	38.3	21	39	4.2	32.0	1.23	2	80.5	5.3	$560.57
Bayer/Stoneville	**ST4946GLB2**	968.9	a	35.7	21	36	4.8	30.5	1.11	2	81.9	3.1	$533.58
CPS/DynagGro	**DG3385B2XF**	930.7	ab	37.4	31	36	4.9	30.0	1.13	2	82.0	4.0	$521.72
Monsanto/Deltapine	**DP1549B2XF**	929.3	ab	36.9	21	35	4.6	30.1	1.09	2	80.6	2.8	$509.21
Bayer/Stoneville	**ST4949GLT**	903.7	ab	37.2	31	36	4.8	30.6	1.14	3	81.5	3.0	$497.05
CPS/DynagGro	**DG3406B2XF**	855.5	ab	37.4	21	36	4.7	30.2	1.11	3	80.7	3.6	$475.78
Dow/Phytogen	**PHY312WRF**	838.1	b	34.4	31	37	4.7	30.4	1.15	3	81.0	3.9	$468.02
Monsanto/Deltapine	**DP1639B2XF**	814.3	b	37.0	31	36	5.1	31.5	1.11	3	81.5	1.3	$433.82
CPS/DynagGro	**DG3757B2XF**	808.2	b	38.9	21	35	4.9	29.6	1.10	2	81.5	2.9	$443.97
Average		**892.0**		**37.0**	---	**36**	**4.7**	**30.5**	**1.13**	**2**	**81.2**	**3.3**	**$493.75**
LSD§		**NS**		**2.8**	---	**3**	**2.8**	**NS**	**2.84**	**NS**	**NS**	**NS**	**NS**
OSL†		**0.062**		**0.002**	---	**0.003**	**<0.0001**	**0.100**	**0.006**	**0.507**	**0.732**	**0.408**	**0.050**
CV‡		**7.9**		**2.7**	---	**2.6**	**2.7**	**2.9**	**2.8**	**27.6**	**1.4**	**51.7**	**9.1**

* 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 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF	2.6	7.2	30.6	5.1
DG3406B2XF	2.7	7.2	30.2	5.8
DG3757B2XF	2.2	6.4	32.7	5.3
DP1549B2XF	2.8	7.8	31.0	5.7
DP1639B2XF	2.5	6.8	29.2	5.4
PHY312WRF	2.5	7.4	32.6	5.2
PHY444WRF	2.4	7.0	29.8	5.0
ST4946GLB2	2.7	7.0	30.7	5.5
ST4949GLT	2.2	6.2	30.4	5.6
Mean	2.5	7.0	30.8	5.4

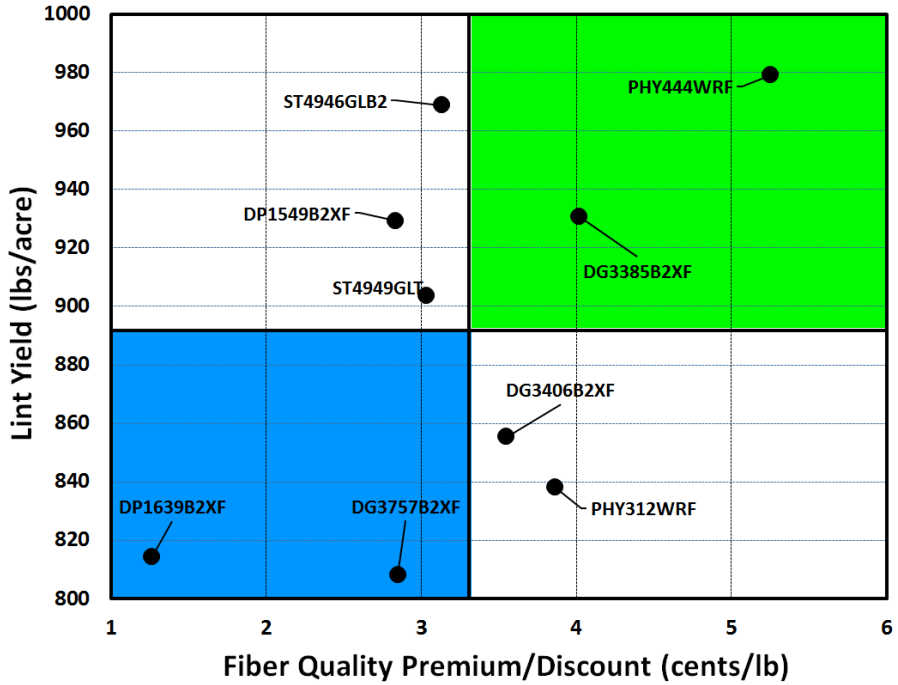


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Marana, AZ, 2016.

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

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micro-naire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * ($/acre)
Bayer/FiberMax	FM1911GLT	2,155.9	a	38.2	21	38	4.7	31.7	1.18	3	80.9	4.5	$1,216.74
Monsanto/Deltapine	DP1549B2XF	2,101.6	a	36.8	21	37	3.8	30.6	1.15	2	79.5	4.9	$1,195.33
Monsanto/Deltapine	DP1044B2RF	2,011.0	a	36.2	21	37	3.9	30.0	1.15	3	80.1	3.6	$1,118.49
Bayer/FiberMax	FM1830GLT	1,981.1	a	39.2	21	40	4.4	33.6	1.25	2	82.1	5.6	$1,141.35
Dow/Phytogen	PHY333WRF	1,952.5	a	37.2	31	37	4.2	31.0	1.16	3	80.8	3.6	$1,084.82
CPS/DynaGro	DG3757B2XF	1,924.4	a	40.6	21	37	4.4	30.0	1.16	3	79.8	4.0	$1,077.89
Dow/Phytogen	PHY444WRF	1,886.5	a	38.8	21	40	3.3	32.4	1.24	3	79.8	2.1	$1,021.32
CPS/DynaGro	DG3385B2XF	1,857.4	a	36.6	21	37	4.5	29.7	1.16	3	81.2	4.7	$1,054.42
Average		1,983.8		38.0	---	38	4.1	31.1	1.18	3	80.5	4.1	$1,113.79
LSD§		NS		2.2	---	1	0.2	1.6	1.25	NS	NS	NS	NS
OSL†		0.235		0.009	---	<0.0001	<0.0001	0.001	<0.0001	0.171	0.459	0.078	0.177
CV‡		7.3		3.3	---	1.6	3.0	2.9	1.7	27.1	1.9	29.3	7.9

* 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, Thatcher, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF	6.7	7.7	31.0	4.7
DG3757B2XF	5.6	7.0	27.6	4.1
DP1044B2RF	6.1	7.7	31.3	4.8
DP1549B2XF	6.1	7.3	31.1	5.0
FM1830GLT	5.7	7.0	31.0	4.3
FM1911GLT	5.2	7.0	28.5	4.5
PHY333WRF	5.6	7.0	31.3	5.0
PHY444WRF	5.7	7.3	28.7	4.1
Mean	5.8	7.3	30.0	4.6

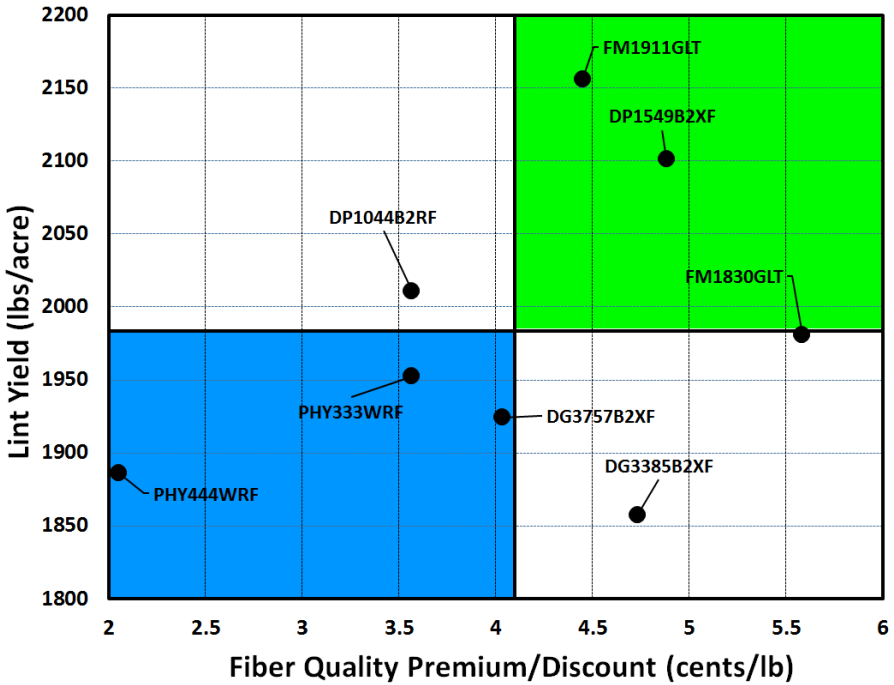


Figure presenting lint yield (y-axis) versus fiber quality premium/discount (x-axis) for the UCVT location in Thatcher, AZ, 2016.

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

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micro-naire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * ($/acre)
CPS/DynaGro	DG3385B2XF	2,351.6	a	38.8	21	40	4.1	31.2	1.24	1	83.9	5.9	$1,362.39
Monsanto/Deltapine	DP1612B2XF	2,307.3	a	38.0	21	40	4.0	32.6	1.25	2	83.0	5.7	$1,329.85
Dow/Phytogen	PHY312WRF	2,299.1	a	36.2	21	40	4.0	31.4	1.25	3	83.0	5.5	$1,321.01
Monsanto/Deltapine	DP1522B2XF	2,259.6	a	36.8	21	39	4.3	31.6	1.22	2	82.6	5.6	$1,302.58
Bayer/FiberMax	FM1911GLT	2,188.9	ab	38.1	21	40	3.9	32.9	1.25	2	82.8	5.7	$1,263.72
Dow/Phytogen	PHY333WRF	2,182.4	ab	36.8	21	39	4.1	31.8	1.22	3	82.3	5.4	$1,253.33
Bayer/FiberMax	FM1320GL	2,150.5	ab	39.2	21	38	4.2	31.5	1.18	2	81.2	5.5	$1,237.16
CPS/DynaGro	DG3757B2XF	2,034.4	ab	38.2	11	38	4.0	29.3	1.19	1	81.8	5.6	$1,170.77
Average		2,221.7		37.8	---	39	4.1	31.5	1.22	2	82.6	5.6	$1,280.10
LSD§		NS		1.4	---	1	NS	1.0	0.03	1	1.4	NS	NS
OSL†		0.08		0.005	---	0.013	0.172	<0.0001	0.004	0.029	0.046	0.798	0.069
CV‡		5.2		2.1	---	1.9	4.6	1.7	1.6	24.1	1.0	6.9	5.2

* 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, Willcox, AZ 2016.

Variety	Plant Population (plants/foot)	Plant Vigor Rating (0-9 L-H)	Plant Height (inches)	Nodes Above White Flower (NAWF)
DG3385B2XF	2.4	7		
DG3757B2XF	2.1	6.3		
DP1522B2XF	2.6	7.3		
DP1612B2XF	3.1	7.7		
FM1320GLT	2.6	5.7		
FM1911GLT	2.2	7.3		
PHY312WRF	2.5	7.3		
PHY333WRF	2.6	7.0		
Mean	2.5	7.0		

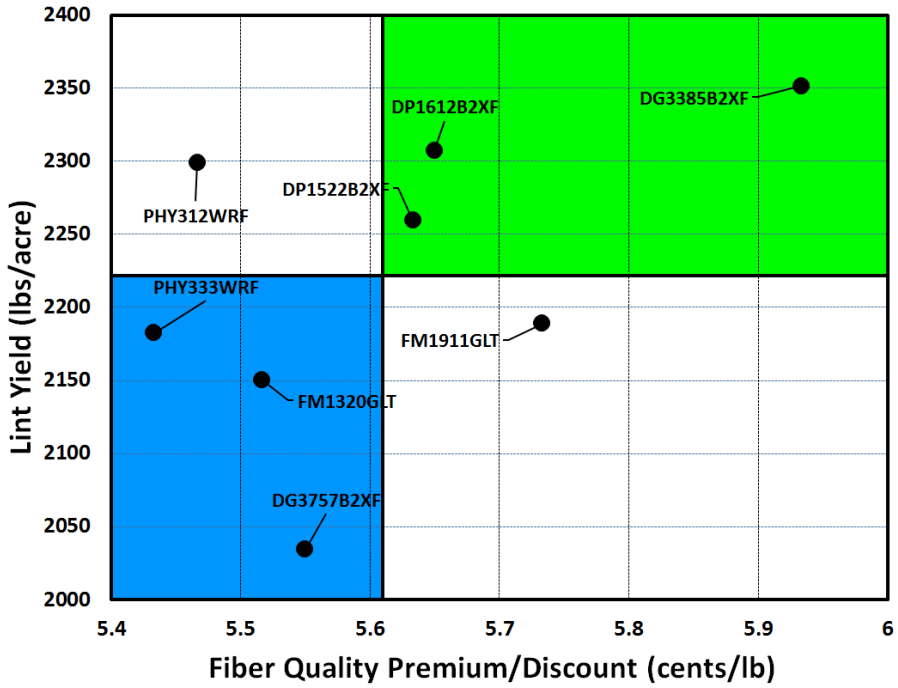
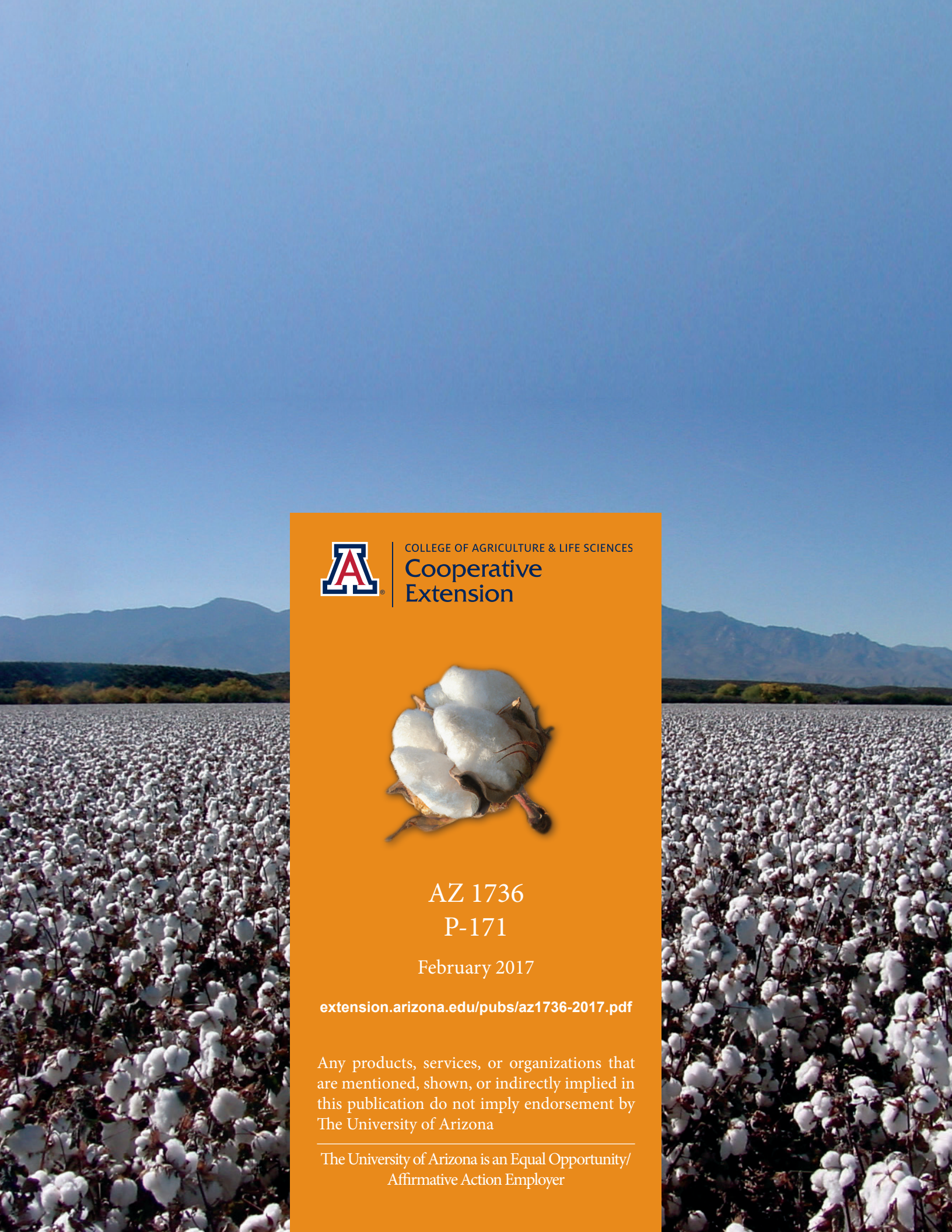


Figure presenting lint yield (y-axis) versus fiber quality premium/ discount (x-axis) for the UCVT location in Willcox, AZ, 2016.



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