

2013

Cotton Variety Testing Results



COLLEGE OF AGRICULTURE
AND LIFE SCIENCES
COOPERATIVE EXTENSION

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



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 are large plot strip trials that 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.

Evaluations of Pima (extra long staple - ELS) cotton variety performance were also conducted at one location in 2013. Results from this evaluation are also presented in this booklet.

The table found below contains planting date, final irrigation date, initial defoliation date, harvest date, soil type, irrigation technique, and varieties selected for each of the trials conducted across Arizona in 2013. The remainder of the tables in this publication contains yield and fiber quality data for each of the locations. Statistical analysis for all parameters is also presented at the bottom of each table. 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.

Randy Norton, editor

The work performed over the course of the 2013 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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All locations advanced strains

	Yuma	Maricopa	Safford
Elevation	147	1192	2958
Soil Type	Gadsden Clay	Casa Grande Sandy loam	Grabe Clay loam
Irrigation Method	Furrow/Flood	Furrow/Flood	Furrow/Flood
Planting Date	3/22/13	5/2/13	4/23/13
Final Irrigation	8/20/13	9/21/13	9/8/13
Initial Defoliation	9/10/13	10/28/13	10/14/13
Harvest Date	10/4/13	11/9/13	11/12/13
Varieties Planted	Seed Provider	Variety	
	Americot	NGX2322B2RF	x x x
	Americot	NGX3305B2RF	x x x
	Americot	NGX3306B2RF	x x x
	Bayer/FiberMax	FM1320GL	x x x
	Bayer/FiberMax	FM1944GLB2	x x x
	Bayer/FiberMax	FM2322GL	x x x
	Bayer/FiberMax	FM2989GLB2	x x x
	Bayer/Stoneville	ST4498B2RF	x x x
	Bayer/Stoneville	ST4747GLB2	x x x
	Bayer/Stoneville	ST4946GLB2	x x x
	Bayer/Stoneville	ST6448GLB2	x x x
	Dow/Phytogen	PX3122-40WRF	x x x
	Dow/Phytogen	PX4433-25WRF	x x x
	Dow/Phytogen	PX4433-27WRF	x x x
	Dow/Phytogen	PX4444-13WRF	x x x
	Dow/Phytogen	PX4444-14WRF	x x x
	Dow/Phytogen	PX5538-33WRF	x x x
	Dow/Phytogen	PX5538-40WRF	x x x
	Dow/Phytogen	PX5540-10WRF	x x x
	Dow/Phytogen	PX5540-57WRF	x x x
	Dow/Phytogen	PX5540-63WRF	x x x
	DynaGro	CT13125	x x x
	DynaGro	CT13414	x x x
	DynaGro	CT13454	x x x
	DynaGro	CT13545	x x x
	DynaGro	CT13663	x x x
	Monsanto/Deltapine	12R224B2R2	x x x
	Monsanto/Deltapine	12R242B2R2	x x x
	Monsanto/Deltapine	12R249B2R2	x x x
	Monsanto/Deltapine	13R335B2R2	x x x
	Monsanto/Deltapine	13R341B2R2	x x x
	Monsanto/Deltapine	13R352B2R2	x x x
	Monsanto/Deltapine	DP1044B2RF	x x x
	Monsanto/Deltapine	DP1410B2RF	x x x
	Monsanto/Deltapine	DP1454NRB2RF	x x x

All locations UCVT

	Aguila	Eloy	Goodyear	Parker	Queen Creek	Stanfield	Thatcher	Willcox	Yuma	Safford - ELS
Elevation (ft. AMSL)	2121	1534	914	295	1548	1360	2875	4279	120	2958
Planting Date	4/20/13	4/18/13	5/24/13	3/28/13	4/17/13	4/3/13	4/20/13	4/29/13	3/27/13	4/26/13
Final Irrigation	9/15/13	9/4/13	9/26/13	10/7/13	9/8/13	9/20/13	9/12/13	9/5/13	10/30/13	9/13/13
Initial Defoliation	10/3/13	10/10/13	10/22/13	10/29/13	9/27/13	10/1/13	9/26/13	10/1/13	11/20/13	10/14/13
Harvest Date	11/14/13	11/20/13	12/11/13	12/13/13	10/29/13	11/6/13	10/21/13	10/31/13	12/2/13	12/2/13
Soil Type	Guest Clay	Casa Grande Fine sandy loam	Gilman Loam	Gilman Fine sandy loam	Contine loam	Denure Sandy loam	Grabe Clay loam	Karro Loam	Holtville Clay	Pima Clay loam
Irrigation Method	Furrow/Flood	Furrow/Flood	Flat/Flood	Furrow/Flood	Furrow/Flood	Flat/SDI	Flat/SDI	Flat/Sprinkler	Furrow/Flood	Furrow/Flood
Varieties Planted	Seed Provider									
	Americot	NG1511B2RF	x	x	x	x	x	x	x	x
	Americot	NG5315B2RF	x	x	x	x	x	x	x	x
	Bayer/FiberMax	FM1944GLB2	x	x	x	x	x	x	x	x
	Bayer/FiberMax	FM2989GLB2	x	x	x	x	x	x	x	x
	Bayer/Stoneville	ST4946GLB2	x	x	x	x	x	x	x	x
	Bayer/Stoneville	ST6448GLB2	x	x	x	x	x	x	x	x
	Dow Phytogen	PHY339WRF	x	x	x	x	x	x	x	x
	Dow Phytogen	PHY499WRF	x	x	x	x	x	x	x	x
	Dow Phytogen	PHY375WRF	x	x	x	x	x	x	x	x
	Dow Phytogen	PHY575WRF	x	x	x	x	x	x	x	x
	DynaGro	DG2570B2RF	x	x	x	x	x	x	x	x
	DynaGro	DG2595B2RF	x	x	x	x	x	x	x	x
	DynaGro	DG2285B2RF	x	x	x	x	x	x	x	x
	Monsanto/Deltapine	DP1044B2RF	x	x	x	x	x	x	x	x
	Monsanto/Deltapine	DP1359B2RF	x	x	x	x	x	x	x	x
	Monsanto/Deltapine	DP1321B2RF	x	x	x	x	x	x	x	x
	Monsanto/Deltapine	DP1219B2RF	x	x	x	x	x	x	x	x
ELS Varieties	Dow Phytogen	PHY811RF								x
	Dow Phytogen	PHY800								x
	Dow Phytogen	PHY802RF								x
	Monsanto/Deltapine	DP358RF								x
	Monsanto/Deltapine	DP357								x
	Monsanto/Deltapine	DP360								x



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Yuma, AZ, 2012.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Color Grade	Staple (32nds)	Strength			Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value* (\$/acre)
			Separation*	Percent Lint			Micronaire (g/tex)	Length (in.)					
Monsanto/Deltapine	13R352B2R2	2,361.7	a	40.2	21	36	4.6	30.8	1.11	2	81.3	3.8	\$1,317.18
Monsanto/Deltapine	12R242B2R2	2,091.1	ab	36.9	21	35	5.1	27.7	1.09	2	82.0	1.7	\$1,122.95
Monsanto/Deltapine	13R335B2R2	2,072.3	abc	37.2	21	36	4.9	30.5	1.11	3	82.3	4.3	\$1,167.45
Dow/Phytogen	PX3122-40WRF	2,042.3	abcd	35.8	31	36	4.3	28.6	1.12	4	81.1	3.0	\$1,123.97
Monsanto/Deltapine	12R249B2R2	2,029.1	abcd	36.3	21	33	5.0	27.5	1.04	2	80.5	-2.4	\$1,008.10
Dow/Phytogen	PX4433-25WRF	1,915.3	bcde	37.9	21	34	4.4	27.7	1.05	3	80.7	0.6	\$1,010.03
Monsanto/Deltapine	DP1454NRB2RF	1,890.4	bcdef	37.7	21	36	4.7	29.3	1.11	3	81.7	3.6	\$1,051.41
Dow/Phytogen	PX5538-40WRF	1,876.6	bcdef	33.0	31	35	4.5	29.5	1.10	4	81.9	3.0	\$1,030.82
Monsanto/Deltapine	12R224B2R2	1,853.2	bcdefg	32.7	21	34	4.2	27.3	1.07	3	81.1	2.1	\$1,003.79
Dow/Phytogen	PX4444-14WRF	1,843.8	bcdefg	36.1	21	34	4.4	28.1	1.07	3	80.8	2.1	\$997.26
Bayer/Stoneville	ST4498B2RF	1,843.6	bcdefg	35.3	31	34	4.9	30.4	1.06	3	82.2	0.7	\$973.45
Monsanto/Deltapine	13R341B2R2	1,833.3	bcdefgh	37.1	21	36	5.3	29.8	1.12	3	82.1	-0.7	\$941.26
Monsanto/Deltapine	DP1044B2RF	1,809.9	bcdefgh	33.8	21	35	4.7	28.3	1.09	3	81.6	3.2	\$1,000.61
DynaGro	CT13414	1,796.5	bcdefgh	37.4	21	35	5.1	27.5	1.07	2	81.4	0.6	\$945.85
Dow/Phytogen	PX4433-27WRF	1,773.7	bcdefgh	36.1	21	34	4.8	27.8	1.05	3	80.9	-0.4	\$917.16
Bayer/Stoneville	ST4946GLB2	1,756.0	bcdefgh	35.2	21	35	4.8	29.0	1.07	3	81.9	2.5	\$960.01
Americot	NGX3306B2RF	1,745.8	bcdefgh	34.9	21	35	4.7	28.7	1.09	3	81.6	1.9	\$940.46
DynaGro	CT13125	1,742.9	bcdefgh	36.4	21	35	4.8	27.8	1.09	3	82.4	2.6	\$952.62
Dow/Phytogen	PX4444-13WRF	1,718.5	cdefgh	37.4	21	37	4.1	29.6	1.14	2	81.3	5.7	\$992.46
Dow/Phytogen	PX5538-33WRF	1,718.2	cdefgh	33.9	31	35	4.7	29.0	1.09	3	82.1	2.4	\$935.04
Bayer/Stoneville	ST6448GLB2	1,716.3	cdefgh	33.5	21	36	4.6	26.5	1.11	3	80.4	3.0	\$944.71
Dow/Phytogen	PX5540-10WRF	1,712.1	cdefgh	36.2	41	35	4.1	29.8	1.09	5	81.5	-0.7	\$877.89
Bayer/FiberMax	FM1944GLB2	1,708.5	defgh	34.5	21	35	4.8	27.8	1.10	2	80.8	4.1	\$959.15
Dow/Phytogen	PX5540-63WRF	1,705.0	defgh	35.2	31	36	4.1	31.3	1.13	5	82.5	1.3	\$909.56
DynaGro	CT13545	1,651.2	efgh	35.4	21	34	4.7	29.7	1.05	3	80.4	-0.1	\$856.07
Americot	NGX2322B2RF	1,646.5	efgh	32.1	21	35	4.5	28.5	1.10	3	81.0	3.8	\$919.04
Dow/Phytogen	PX5540-57WRF	1,626.6	efgh	35.2	21	36	4.3	29.0	1.11	4	81.5	3.3	\$900.20
Monsanto/Deltapine	DP1410B2RF	1,579.6	efgh	34.7	21	35	4.5	27.9	1.08	3	79.8	2.3	\$857.10
Americot	NGX3305B2RF	1,539.5	fgh	33.8	21	34	4.7	27.3	1.06	2	80.8	1.2	\$821.21
Bayer/FiberMax	FM2989GLB2	1,531.0	fgh	33.0	31	35	4.9	27.8	1.09	3	80.6	1.6	\$821.65
DynaGro	CT13663	1,515.4	gh	32.0	31	35	4.4	29.7	1.09	4	81.3	2.3	\$822.78
DynaGro	CT13454	1,479.3	h	31.2	31	37	4.3	31.7	1.17	4	82.8	3.0	\$812.86
Average		1,785.2		35.3	---	35	4.6	28.8	1.09	3	81.4	2.1	\$965.44
LSD§		517.9		2.6	---	2	0.6	3.5	0.01	2	2.6	6.60	\$245.06
OSL†		<0.0001		<0.0001	---	0.0013	<0.0001	<0.0001	0.0004	<0.0001	0.0007	0.0022	<0.0001
CV‡		7.3		2.6	---	3.5	4.1	4.4	3.3	24.0	1.1	113.9	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

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Maricopa, AZ, 2013.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple (32nds)	Micronaire	Strength		Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * (\$/acre)
			Separation*	Percent Lint	Color Grade			(g/tex)	Length (in.)				
Monsanto/Deltapine	13R352B2R2	2,090.0	a	39.1	21	39	4.6	31.9	1.21	2	82.0	6.1	\$1,214.81
Monsanto/Deltapine	DP1044B2RF	1,945.3	ab	33.9	21	38	4.9	29.8	1.18	2	82.7	5.1	\$1,109.96
Monsanto/Deltapine	13R335B2R2	1,934.8	abc	38.3	21	37	4.9	31.2	1.16	2	83.2	4.7	\$1,097.08
Monsanto/Deltapine	12R242B2R2	1,930.2	abc	37.4	21	37	5.0	28.6	1.17	2	82.7	3.6	\$1,072.73
DynaGro	CT13414	1,877.4	bcd	37.9	21	37	4.9	28.2	1.16	2	83.3	5.1	\$1,073.53
Monsanto/Deltapine	13R341B2R2	1,866.6	bcde	37.9	21	38	5.2	32.1	1.20	2	82.1	3.2	\$1,029.91
Bayer/Stoneville	ST4946GLB2	1,850.6	bcde	33.9	21	38	4.9	31.2	1.19	3	82.9	4.9	\$1,052.53
Monsanto/Deltapine	12R224B2R2	1,843.0	bcdef	32.8	21	37	4.9	28.9	1.15	2	82.1	4.2	\$1,036.02
Monsanto/Deltapine	12R249B2R2	1,812.6	bcdefg	36.2	21	37	4.6	31.7	1.16	1	81.9	6.0	\$1,050.36
DynaGro	CT13545	1,808.6	bcdefg	35.0	21	38	4.5	34.1	1.18	2	82.7	6.1	\$1,050.53
Dow/Phytogen	PX3122-40WRF	1,777.5	bcdefgh	34.8	31	39	4.5	30.4	1.23	3	83.4	4.5	\$1,003.91
Dow/Phytogen	PX4444-14WRF	1,771.2	bcdefgh	35.9	21	38	4.6	30.1	1.18	3	82.6	5.6	\$1,019.74
DynaGro	CT13125	1,750.9	bcdefgh	35.4	21	39	4.7	29.7	1.21	2	82.7	5.9	\$1,014.47
Bayer/Stoneville	ST4498B2RF	1,743.4	cdefgh	33.9	21	37	4.8	31.7	1.17	3	83.0	4.3	\$981.98
Americot	NGX3306B2RF	1,716.0	defghi	33.8	21	40	4.8	31.6	1.23	2	83.5	6.1	\$997.66
Bayer/Stoneville	ST6448GLB2	1,715.5	defghi	33.0	21	39	4.7	29.0	1.22	2	81.9	5.7	\$988.84
Americot	NGX3305B2RF	1,698.5	defghij	32.4	21	39	4.6	30.7	1.21	3	82.8	5.5	\$976.82
Dow/Phytogen	PX4444-13WRF	1,695.3	defghij	37.1	21	40	4.3	31.4	1.25	2	83.0	6.2	\$986.26
Americot	NGX2322B2RF	1,687.5	defghij	32.6	21	39	4.6	30.8	1.21	2	82.7	5.9	\$976.37
Dow/Phytogen	PX4433-25WRF	1,678.6	defghij	37.0	21	37	4.3	30.2	1.15	2	81.8	5.5	\$965.44
Monsanto/Deltapine	DP1454NRB2RF	1,675.7	efghij	36.7	21	37	4.7	29.7	1.15	2	82.0	5.1	\$957.50
Bayer/FiberMax	FM1320GL	1,671.7	efghij	35.9	21	38	4.9	31.4	1.18	2	82.3	4.9	\$950.37
Bayer/Stoneville	ST4747GLB2	1,643.9	fghij	32.9	31	39	4.6	28.9	1.21	3	81.5	4.0	\$920.03
Bayer/FiberMax	FM1944GLB2	1,634.9	ghij	33.3	21	39	4.8	31.2	1.22	2	82.5	6.1	\$950.08
Dow/Phytogen	PX4433-27WRF	1,621.8	ghijkl	34.1	21	38	4.6	30.9	1.18	3	82.8	5.5	\$931.99
Dow/Phytogen	PX5540-63WRF	1,608.6	hijk	36.2	31	38	3.9	31.9	1.20	4	83.1	2.7	\$879.33
Dow/Phytogen	PX5538-40WRF	1,584.9	hijk	33.9	31	38	4.4	31.5	1.19	4	82.8	3.9	\$886.43
Dow/Phytogen	PX5540-10WRF	1,539.7	ijkl	36.3	31	38	4.0	31.0	1.19	5	82.1	1.6	\$825.85
Dow/Phytogen	PX5538-33WRF	1,534.7	ijkl	33.2	31	39	4.3	31.3	1.21	4	83.0	4.1	\$860.38
Dow/Phytogen	PX5540-57WRF	1,507.8	jkl	33.9	31	39	4.2	30.6	1.20	4	82.3	4.2	\$846.99
Bayer/FiberMax	FM2322GL	1,434.6	klm	38.9	31	40	4.4	32.5	1.24	3	82.4	5.0	\$817.88
DynaGro	CT13663	1,431.2	klm	31.3	31	38	4.7	30.7	1.17	3	82.7	4.5	\$808.99
Bayer/FiberMax	FM2989GLB2	1,379.3	lm	31.8	21	37	4.7	30.0	1.17	3	82.1	4.5	\$778.76
DynaGro	CT13454	1,292.6	m	31.5	31	41	3.7	31.9	1.26	4	82.7	2.9	\$710.00
Average		1,698.7		34.9	---	38	4.6	30.8	1.19	3	82.6	4.8	\$965.40
LSD§		200.0		1.1	---	2	0.4	1.9	0.06	2	1.8	2.90	\$121.60
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0008	<0.0001	<0.0001
CV‡		4.2		1.2	---	1.9	3.1	2.2	1.7	23.6	0.8	21.8	4.5

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

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Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Safford, AZ, 2013.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Strength				Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * (\$/acre)
			Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	(g/tex)	Length (in.)				
Monsanto/Deltapine	12R249B2R2	2,196.2	a	39.0	24	37	4.2	30.6	1.15	3	80.7	5.4	\$1,259.76
DynaGro	CT13454	2,094.2	ab	35.0	36	39	4.0	32.1	1.22	5	82.2	1.3	\$1,114.38
Monsanto/Deltapine	13R352B2R2	2,004.7	abc	41.3	24	37	4.2	31.0	1.16	2	81.2	5.7	\$1,156.72
Bayer/FiberMax	FM2322GL	1,988.6	abcd	36.1	34	37	4.3	30.3	1.15	3	82.1	3.7	\$1,107.15
Monsanto/Deltapine	DP1044B2RF	1,939.9	bcde	35.6	26	36	4.3	28.9	1.12	3	81.4	4.4	\$1,094.22
Bayer/FiberMax	FM2989GLB2	1,936.9	bcde	36.4	31	37	4.5	29.2	1.15	3	81.5	4.3	\$1,089.91
Bayer/Stoneville	ST4747GLB2	1,912.0	bcde	35.9	36	38	4.2	28.0	1.17	4	80.3	1.6	\$1,025.40
Monsanto/Deltapine	13R335B2R2	1,837.2	cdefg	39.2	26	37	4.1	31.6	1.16	3	81.6	5.1	\$1,048.56
Monsanto/Deltapine	12R224B2R2	1,818.1	cdefgh	35.2	31	37	4.0	28.7	1.16	4	81.5	3.8	\$1,013.59
Bayer/Stoneville	ST4946GLB2	1,803.9	cdefgh	36.1	31	37	4.3	31.3	1.14	4	81.8	3.5	\$1,001.65
Dow/Phytogen	PX4444-14WRF	1,799.4	cdefgh	36.0	31	37	3.9	29.3	1.16	4	81.6	2.7	\$983.96
Dow/Phytogen	PX4444-13WRF	1,794.1	cdefghi	37.7	21	39	3.5	30.8	1.22	3	81.3	4.8	\$1,018.72
Dow/Phytogen	PX5540-63WRF	1,776.2	cdefghij	37.4	39	38	3.7	30.9	1.18	5	81.7	0.5	\$932.68
DynaGro	CT13545	1,756.0	defghijk	37.2	26	38	3.8	32.7	1.17	2	81.3	5.6	\$1,011.67
DynaGro	CT13414	1,753.7	defghijk	40.4	26	36	4.5	27.2	1.11	3	82.0	4.6	\$991.81
Bayer/FiberMax	FM1944GLB2	1,752.9	defghijk	34.9	29	38	4.1	30.4	1.19	3	80.8	5.1	\$1,000.96
Americot	NGX2322B2RF	1,749.7	defghijk	35.0	31	38	4.2	30.6	1.19	3	81.3	4.8	\$993.37
Dow/Phytogen	PX5538-33WRF	1,747.1	efghijk	34.7	34	37	3.8	29.9	1.16	5	80.9	1.2	\$928.91
Dow/Phytogen	PX5540-57WRF	1,737.4	efghijk	36.5	41	38	3.7	30.3	1.19	5	81.9	-0.6	\$893.54
Bayer/Stoneville	ST4498B2RF	1,723.4	efghijk	35.7	31	37	4.0	30.5	1.14	4	81.7	3.8	\$962.23
Monsanto/Deltapine	13R347B2R2	1,715.3	efghijk	39.1	24	37	4.2	28.7	1.14	3	81.2	4.8	\$974.95
Dow/Phytogen	PX5540-10WRF	1,675.4	fghijk	37.3	36	37	3.7	30.0	1.15	5	81.0	-0.2	\$866.06
Dow/Phytogen	PX5538-40WRF	1,674.4	fghijk	35.0	39	37	3.8	30.7	1.16	5	82.0	-0.8	\$859.80
Americot	NGX3306B2RF	1,666.1	ghijkl	35.8	26	38	4.2	31.1	1.17	3	82.0	5.1	\$950.63
Monsanto/Deltapine	13R341B2R2	1,644.2	ghijkl	39.0	21	37	4.3	30.8	1.15	3	81.3	5.6	\$946.62
Americot	NGX3305B2RF	1,643.9	ghijkl	35.6	29	37	4.1	29.4	1.15	3	81.3	4.7	\$931.20
DynaGro	CT13125	1,613.2	ghijkl	36.5	31	37	3.9	29.3	1.16	3	82.3	4.3	\$907.23
Dow/Phytogen	PX3122-40WRF	1,603.3	ghijkl	36.4	31	37	3.9	30.2	1.16	5	81.8	2.0	\$866.28
Bayer/Stoneville	ST6448GLB2	1,595.4	hijkl	35.7	29	37	4.1	28.8	1.15	3	80.1	4.7	\$904.66
Bayer/FiberMax	FM1320GL	1,581.0	hijkl	37.9	31	37	4.4	30.2	1.13	4	81.5	3.7	\$880.42
Monsanto/Deltapine	12R242B2R2	1,553.5	ijkl	38.2	31	37	4.3	27.6	1.14	3	82.2	4.5	\$876.97
Dow/Phytogen	PX4433-25WRF	1,539.5	jkl	37.2	31	36	3.6	29.5	1.13	4	81.1	2.7	\$841.55
Dow/Phytogen	PX4433-27WRF	1,528.7	kl	34.9	29	37	3.7	28.9	1.13	4	80.5	3.8	\$852.05
DynaGro	CT13663	1,432.5	l	33.4	31	36	4.1	29.8	1.11	4	81.3	2.6	\$781.62
Average		1,752.6		36.7	---	37	4.0	30.0	1.16	4	81.4	3.5	\$972.62
LSD§		241.5		1.5	---	2	0.7	2.1	0.05	2	1.6	3.1	\$149.60
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV‡		4.9		1.5	---	1.4	5.8	2.5	1.4	12.9	0.7	31.7	5.5

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Yuma, AZ, 2012.

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	2,082.4	a	36.4	---	34	4.7	28.5	1.07	---	79.6	-1.5	\$1,057.29
DynaGro	DG2570B2RF	2,070.5	a	37.6	---	35	4.9	28.6	1.09	---	80.8	-0.1	\$1,072.48
Dow/Phytogen	PHY499WRF	2,038.3	a	38.3	---	35	4.9	30.2	1.11	---	81.1	-1.2	\$1,040.93
Americot	NG1511B2RF	2,007.0	a	38.7	---	35	4.8	28.8	1.08	---	81.0	0.1	\$1,045.76
Dow/Phytogen	PHY339WRF	1,979.3	a	38.6	---	35	4.9	29.9	1.09	---	81.0	-1.2	\$997.80
Monsanto/Deltapine	DP1321B2RF	1,914.5	a	39.9	---	35	5.0	30.4	1.09	---	82.0	-1.2	\$975.12
Bayer/Stoneville	ST4946GLB2	1,906.9	a	38.5	---	35	4.8	30.5	1.09	---	81.3	-1.2	\$962.12
Bayer/FiberMax	FM1944GLB2	1,886.3	a	36.2	---	37	4.8	28.9	1.15	---	80.5	-1.5	\$960.95
DynaGro	DG2285B2RF	1,857.1	a	36.5	---	35	4.9	29.2	1.10	---	80.6	0.1	\$966.83
Americot	NG3348B2RF	1,699.0	a	33.6	---	35	4.3	29.9	1.09	---	81.1	0.2	\$886.67
Average		1,944.1		37.4		35	4.8	29.5	1.09		80.9	-0.8	\$966.60
LSD§	NS			6.3	---	NS	NS	NS	NS	---	NS	NS	NS
OSL†	0.8815			0.0303	---	0.3758	0.7903	0.2833	0.3758	---	0.5037	0.8974	0.8765
CV‡	12.8			3.5	---	2.4	7.1	3.0	2.4	---	1.1	204.9	12.2

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Parker, AZ, 2013.

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)
DynaGro	DG2570B2RF	1,451.2	a	33.7	31	37	4.5	31.2	1.15	2	82.8	5.3	\$831.00
Americot	NG1511B2RF	1,444.2	a	33.6	31	36	4.7	31.1	1.12	4	82.2	3.5	\$801.55
Bayer/Stoneville	ST4946GLB2	1,420.4	a	32.5	31	37	4.6	32.6	1.15	4	82.6	3.9	\$792.98
Monsanto/Deltapine	DP1044B2RF	1,404.8	a	32.5	31	36	4.4	30.1	1.12	3	82.1	3.8	\$784.42
Monsanto/Deltapine	DP1359B2RF	1,377.3	a	33.0	31	38	4.4	35.1	1.18	3	82.2	5.1	\$786.04
Dow/Phytogen	PHY499WRF	1,314.1	a	34.4	31	36	4.9	32.4	1.12	3	82.9	3.1	\$727.32
Bayer/FiberMax	FM1944GLB2	1,310.0	a	31.9	31	38	4.2	32.9	1.20	3	82.7	5.4	\$751.56
DynaGro	DG2595B2RF	1,307.2	a	32.3	41	36	4.4	30.8	1.14	3	82.0	3.0	\$719.93
Dow/Phytogen	PHY575WRF	1,236.5	a	30.2	31	38	4.1	31.2	1.18	3	82.7	4.9	\$702.95
Americot	NG5315B2RF	862.8	b	31.2	31	37	4.2	30.0	1.15	2	82.2	5.4	\$495.32
Average		1,312.9		32.5		37	4.4	31.7	1.15	3	82.4	4.3	\$739.31
LSD§	373.7			2.4	---	2	0.5	2.6	0.06	1	NS	2.5	\$207.64
OSL†	0.0006			0.0006	---	0.0042	0.0006	<0.0001	0.0005	0.0010	0.6970	0.0042	0.0012
CV‡	9.2			2.4	---	1.8	4.0	2.7	1.7	13.0	0.8	18.8	9.6

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation¹

2013
Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Goodyear, AZ, 2013.

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	ST4946GLB2	1,536.7	a	34.6	31	38	4.2	32.8	1.18	3	82.7	3.9	\$859.56
Dow/Phytogen	PHY339WRF	1,483.2	ab	33.4	31	37	4.1	31.6	1.16	3	82.1	5.1	\$846.74
DynaGro	DG2595B2RF	1,464.6	ab	33.2	31	38	4.5	30.6	1.17	2	82.2	5.3	\$838.75
Monsanto/Deltapine	DP1219B2RF	1,454.8	ab	33.6	31	38	3.9	34.1	1.20	2	82.0	5.7	\$839.40
Monsanto/Deltapine	DP1044B2RF	1,435.5	ab	32.5	31	37	4.1	30.7	1.16	2	82.3	5.5	\$825.74
Americot	NG1511B2RF	1,410.4	ab	32.9	41	37	4.3	31.4	1.13	3	82.2	3.1	\$777.70
DynaGro	DG2285B2RF	1,364.2	ab	32.9	31	37	4.4	29.8	1.17	3	82.5	4.6	\$772.50
Dow/Phytogen	PHY499WRF	1,340.9	ab	32.1	41	37	4.4	32.3	1.16	3	82.9	3.5	\$743.24
Bayer/FiberMax	FM1944GLB2	1,270.4	b	33.9	31	38	4.4	31.9	1.20	2	82.0	4.6	\$718.47
Americot	NG5315B2RF	922.6	c	34.8	31	38	3.2	31.0	1.18	2	82.5	1.9	\$496.87
Average		1,368.3		33.4	---	37	4.1	31.6	1.17	3	82.3	4.3	\$771.90
LSD§		266.3		NS	---	2	0.5	2.5	0.05	2	NS	2.40	\$128.27
OSL†		<0.0001		0.4221	---	0.0175	<0.0001	0.0002	0.0015	0.0002	0.4535	<0.0001	<0.0001
CV‡		6.9		5.1	---	1.7	4.9	3.2	1.5	21.1	0.7	22.0	6.6

* Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount
 § Least Significant Difference
 † Observed Significance Level
 ‡ Coefficient of Variation

2013
Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Stanfield, AZ, 2013.

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	1,563.3	a	37.4	21	37	5.0	30.6	1.14	2	82.4	3.9	\$875.20
Monsanto/Deltapine	DP1359B2RF	1,532.2	ab	37.3	21	37	4.8	32.7	1.16	1	81.1	5.9	\$887.15
DynaGro	DG2570B2RF	1,467.0	abc	37.0	21	36	5.0	31.5	1.13	2	82.7	3.9	\$820.97
Bayer/Stoneville	ST6448GLB2	1,453.0	abc	37.4	21	38	4.7	29.8	1.19	2	81.3	5.9	\$840.59
Bayer/Stoneville	ST4946GLB2	1,400.1	abc	36.8	21	36	5.1	31.3	1.13	1	82.5	2.7	\$766.45
DynaGro	DG2595B2RF	1,399.7	abc	38.0	21	37	5.1	30.2	1.15	2	82.7	3.0	\$769.44
Americot	NG1511B2RF	1,358.4	bc	36.2	21	37	5.1	31.3	1.13	2	82.1	3.9	\$758.42
Dow/Phytogen	PHY499WRF	1,331.0	bcd	36.5	21	37	5.1	32.0	1.14	2	82.8	3.8	\$743.53
Dow/Phytogen	PHY339WRF	1,309.3	cd	36.7	21	37	4.6	32.0	1.16	2	83.1	6.1	\$760.53
Americot	NG5315B2RF	1,127.9	d	37.4	21	37	4.7	30.6	1.17	1	83.2	6.0	\$654.17
Average		1,394.2		37.1	---	37	4.9	31.2	1.15	2	82.4	4.5	\$787.64
LSD§		204.9		NS	---	2	0.4	2.9	0.05	1	2.0	2.9	\$143.60
OSL†		<0.0001		0.6904	---	0.0256	<0.0001	0.0258	0.0004	0.0330	0.0042	0.0003	0.0001
CV‡		6.0		3.4	---	1.7	3.1	3.6	1.6	26.9	0.9	25.2	7.0

* Value calculated from CCC loan schedule base price of \$0.52/lb + premium/discount
 § Least Significant Difference
 † Observed Significance Level
 ‡ Coefficient of Variation



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Queen Creek, AZ, 2013.

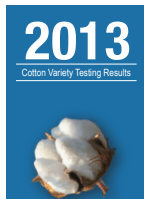
Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Color Grade	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * (\$/acre)
Monsanto/Deltapine	DP1044B2RF	1,800.7	a	36.8	11	36	4.7	29.2	1.13	1	81.3	4.8	\$1,022.63
Bayer/Stoneville	ST4946GLB2	1,706.2	ab	37.2	21	37	4.8	32.5	1.14	2	82.4	4.4	\$962.00
Americot	NG5315B2RF	1,703.9	ab	39.3	21	37	4.8	29.6	1.17	2	82.5	5.2	\$974.71
Monsanto/Deltapine	DP1359B2RF	1,665.2	abc	38.6	21	37	4.5	31.3	1.16	2	80.8	5.9	\$964.61
Dow/Phytogen	PHY339WRF	1,643.4	bc	37.1	21	38	4.3	31.8	1.17	2	82.2	5.9	\$951.17
Americot	NG1511B2RF	1,587.7	bcd	38.6	21	36	4.8	30.9	1.13	2	82.1	4.8	\$900.99
Dow/Phytogen	PHY499WRF	1,563.4	cde	38.1	21	36	4.7	30.3	1.11	2	82.0	4.9	\$888.37
DynaGro	DG2285B2RF	1,484.3	de	36.6	21	37	4.5	29.6	1.15	2	82.8	5.6	\$855.60
Bayer/Stoneville	ST6448GLB2	1,467.1	de	35.4	21	37	4.6	28.9	1.17	2	81.0	5.6	\$845.33
DynaGro	DG2595B2RF	1,445.7	e	36.5	21	37	4.8	29.3	1.14	2	81.8	5.5	\$831.33
Average		1,606.8		37.4	---	37	4.6	30.3	1.15	2	81.9	5.3	\$919.67
LSD§		140.5		2.5	---	2	0.5	2.2	0.05	NS	2.0	NS	\$95.57
OSL†		<0.0001		0.0001	---	0.0016	0.0134	<0.0001	0.0002	0.1676	0.0485	0.5496	<0.0001
CV‡		3.6		2.6	---	1.5	4.1	2.8	1.4	27.5	1.0	21.5	3.9

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Aguila, AZ, 2013.

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	DP1359B2RF	1,864.8	a	38.7	31	39	4.7	32.4	1.20	2	82.5	4.9	\$1,061.23
Dow/Phytogen	PHY499WRF	1,713.5	ab	37.3	31	38	4.8	32.3	1.17	3	83.5	5.0	\$976.51
Monsanto/Deltapine	DP1044B2RF	1,713.0	ab	35.9	21	38	4.6	30.9	1.18	2	82.8	6.1	\$994.36
Bayer/Stoneville	ST4946GLB2	1,710.8	abc	37.0	31	38	4.7	31.8	1.18	3	83.2	5.5	\$984.00
Bayer/Stoneville	ST6448GLB2	1,627.6	bc	34.6	21	39	4.5	30.2	1.22	2	82.1	5.6	\$937.20
DynaGro	DG2595B2RF	1,623.3	bc	36.6	31	38	5.0	31.7	1.17	2	83.2	3.4	\$900.10
DynaGro	DG2570B2RF	1,601.6	bc	36.8	21	37	4.9	30.7	1.15	2	82.9	4.5	\$905.26
Dow/Phytogen	PHY339WRF	1,553.8	bc	36.6	31	38	4.3	31.7	1.19	3	82.8	5.3	\$891.20
Americot	NG1511B2RF	1,532.7	bc	37.8	31	37	4.9	31.7	1.15	3	83.1	4.2	\$860.55
Americot	NG5315B2RF	1,511.9	c	38.6	21	39	4.6	29.9	1.21	2	83.6	5.6	\$871.29
Average		1,645.3		37.0	---	38	4.7	31.3	1.18	2	82.9	5.0	\$938.17
LSD§		201.0		1.9	---	2	0.4	1.3	0.04	1	1.1	NS	\$133.81
OSL†		<0.0001		<0.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	0.0038	0.0004	0.0538	0.0002
CV‡		4.9		2.1	---	1.5	3.2	1.5	1.3	21.1	0.5	21.6	5.8

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Eloy, AZ, 2013.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Color Grade	Staple (32nds)	Micronaire	Strength		Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * (\$/acre)
			Separation*	Percent Lint				(g/tex)	Length (in.)				
Monsanto/Deltapine	DP1044B2RF	1,511.7	a	33.1	21	36	4.8	28.7	1.13	2	82.1	5.5	\$869.61
Bayer/Stoneville	ST4946GLB2	1,445.4	ab	33.6	16	36	4.8	31.3	1.12	2	82.2	5.8	\$834.72
Monsanto/Deltapine	DP1359B2RF	1,383.8	abc	33.9	16	37	4.5	32.0	1.14	1	80.5	5.7	\$798.70
Dow/Phytogen	PHY499WRF	1,376.2	bc	34.4	21	36	4.6	31.4	1.13	2	82.4	5.8	\$795.09
Bayer/FiberMax	FM1944GLB2	1,333.9	bcd	32.0	16	38	4.7	31.4	1.18	2	81.2	6.0	\$773.98
Americot	NG5315B2RF	1,270.9	cde	33.1	21	37	4.7	29.6	1.17	1	83.2	5.9	\$735.85
Dow/Phytogen	PHY575WRF	1,242.7	de	32.4	16	37	4.2	30.3	1.17	2	82.1	6.0	\$720.12
Americot	NG1511B2RF	1,208.0	de	34.0	21	36	4.7	30.6	1.11	2	81.2	5.3	\$691.51
DynaGro	DG2285B2RF	1,193.7	e	31.8	16	37	4.5	28.8	1.13	3	82.0	5.4	\$684.87
DynaGro	DG2595B2RF	1,157.5	e	31.8	21	36	4.9	29.4	1.12	2	81.1	5.6	\$666.74
Average		1,312.4		33.0	---	36	4.6	30.3	1.14	2	81.8	5.7	\$757.12
LSD§		133.5		NS	---	2	0.7	3.2	0.06	NS	NS	NS	\$74.52
OSL†		<0.0001		0.1325	---	0.0082	0.0499	0.0065	0.0056	0.1114	0.1509	0.0942	<0.0001
CV‡		2.5		2.7	---	1.0	3.3	2.2	1.2	26.3	0.9	3.9	2.3

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Thatcher, AZ, 2013.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Color Grade	Staple (32nds)	Micronaire	Strength		Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value * (\$/acre)
			Separation*	Percent Lint				(g/tex)	Length (in.)				
Monsanto/Deltapine	DP1359B2RF	1,679.9	a	39.9	21	37	4.4	31.8	1.16	2	80.9	6.1	\$975.20
Bayer/FiberMax	FM2989GLB2	1,540.6	b	36.1	21	37	4.6	29.6	1.15	2	81.6	5.6	\$887.36
Bayer/FiberMax	FM1944GLB2	1,507.3	bc	37.1	21	37	4.5	30.3	1.16	2	81.0	5.6	\$867.37
Monsanto/Deltapine	DP1044B2RF	1,492.4	bc	36.6	21	36	4.4	29.3	1.13	2	81.8	5.6	\$859.93
Dow/Phytogen	PHY499WRF	1,483.7	bc	37.9	21	36	4.6	30.2	1.12	3	82.5	5.0	\$844.95
Americot	NG5315B2RF	1,449.4	bcd	41.1	11	36	4.5	28.1	1.13	2	82.4	5.6	\$834.88
DynaGro	DG2570B2RF	1,425.8	bcde	36.9	11	36	4.5	28.4	1.10	2	81.7	5.1	\$813.70
Americot	NG1511B2RF	1,409.2	cde	38.7	21	36	4.5	30.1	1.11	3	81.9	4.3	\$794.45
DynaGro	DG22285B2RF	1,335.7	de	37.8	21	36	4.2	29.1	1.13	3	81.9	5.3	\$765.55
Dow/Phytogen	PHY575WRF	1,316.7	e	37.2	21	36	4.2	29.1	1.13	3	81.6	5.0	\$751.17
Average		1,464.1		37.9	---	36	4.4	29.6	1.13	2	81.7	5.3	\$839.46
LSD§		131.3		0.9	---	2	0.4	1.6	0.04	1	0.9	1.2	\$72.92
OSL†		<0.0001		<0.0001	---	0.0003	0.0030	<0.0001	<0.0001	0.0002	<0.0001	0.0023	<0.0001
CV‡		3.5		0.9	---	1.4	3.6	2.2	1.2	17.3	0.4	9.1	3.6

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona ELS Cotton Variety Testing Program, Willcox, AZ, 2013.

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)
Americot	NG1511B2RF	1,890.6	a	39.2	21	37	4.2	29.0	1.16	2	82.3	5.7	\$1,090.35
Monsanto/Deltapine	DP1321B2RF	1,834.5	ab	38.1	11	37	4.3	28.8	1.17	1	82.3	5.8	\$1,060.36
DynaGro	DG2285B2RF	1,752.6	bc	37.3	11	37	3.5	29.0	1.17	2	81.5	4.7	\$992.85
Dow/Phytogen	PHY375WRF	1,700.5	c	37.9	11	36	3.8	27.0	1.13	1	80.8	5.3	\$973.88
DynaGro	DG2570B2RF	1,691.1	c	37.2	11	37	3.6	28.2	1.15	1	80.7	5.1	\$964.90
Bayer/FiberMax	FM1944GLB2	1,674.4	c	36.7	11	38	4.0	31.4	1.20	1	82.5	6.2	\$974.77
Dow/Phytogen	PHY339WRF	1,589.8	d	36.9	11	38	3.4	29.2	1.20	2	82.2	4.7	\$901.57
Bayer/Stoneville	ST4946GLB2	1,555.1	d	35.3	21	38	3.5	30.0	1.19	2	81.7	4.6	\$880.70
Monsanto/Deltapine	DP1044B2RF	1,313.4	e	33.9	11	37	3.2	28.0	1.15	1	81.0	2.7	\$718.84
Americot	NG2051B2RF	1,229.7	e	32.8	21	36	3.4	27.2	1.12	1	80.0	3.6	\$683.54
Average		1,623.2	---	36.5	---	37	3.7	28.8	1.16	2	81.5	4.8	\$924.17
LSD§		84.6		1.6	---	1	0.7	4.3	0.03	1	2.3	NS	\$72.31
OSL†		<0.0001		<0.0001	---	<0.0001	0.0004	0.0115	<0.0001	0.0065	0.0089	0.1882	<0.0001
CV‡		1.8		1.4	---	0.9	6.7	4.2	0.6	27.8	0.9	29.6	2.6

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

2013

Cotton Variety Testing Results



Yield and fiber quality data for The University of Arizona Pima Cotton (ELS) Variety Testing Program, Safford, AZ, 2013.

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 (%)
Monsanto/Deltapine	DP358RF	1,867.9	a	35.2	4	44	4.0	42.8	1.36	---	85.5
Monsanto/Deltapine	DP357	1,850.7	a	37.0	3	43	4.4	40.2	1.33	---	85.3
Dow/Phytogen	PHY811RF	1,827.0	ab	35.2	4	44	4.0	41.8	1.37	---	85.9
Dow/Phytogen	PHY800	1,822.5	ab	35.3	4	44	4.0	40.7	1.37	---	85.3
Dow/Phytogen	PHY802RF	1,791.0	ab	35.7	4	44	3.9	41.3	1.39	---	86.0
Monsanto/Deltapine	DP360	1,637.8	b	35.0	4	44	4.1	41.0	1.36	---	84.9
Average		1,799.5	---	35.6	---	44	4.1	41.3	1.36	---	85.5
LSD§		212.9		1.3	---	2	NS	NS	0.05	---	NS
OSL†		0.035		<0.0001	---	0.0466	0.0917	0.3112	0.0466	---	0.2770
CV‡		5.1		1.0	---	1.5	5.0	3.9	1.5	---	0.8

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

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