

2019 Arizona Upland and Pima Cotton Variety Testing Program Results

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The University of Arizona
Cooperative Extension and Experiment Station

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Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Yuma, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Staple (32nds)	Strength		Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)	
			Separation*	Percent Lint		Micronaire	Length (in.)				
Bayer	DP2012B3XF	2,130.0	a*	44.9	38	4.4	31.0	1.19	82.9	4.3	\$1,199.64
Bayer	DP2020B3XF	2,023.2	ab	42.1	39	4.5	30.6	1.20	82.5	4.2	\$1,137.48
Americot	NG3994B3XF	1,859.4	bc	44.4	38	4.7	31.3	1.18	81.7	3.6	\$1,033.93
BASF	ST4550GLTP	1,846.2	c	47.9	38	5.0	34.3	1.19	85.0	3.5	\$1,023.40
Corteva	PHY350W3FE	1,842.2	c	44.7	39	4.5	33.6	1.20	84.2	4.6	\$1,042.53
Bayer	18R410B3XF	1,838.9	c	43.5	38	4.8	31.2	1.17	82.9	3.7	\$1,023.85
Corteva	PX3D32W3FE	1,810.9	c	44.3	38	4.2	33.0	1.20	82.5	4.5	\$1,023.15
Americot	NG4936B3XF	1,741.5	cd	43.9	39	4.0	31.6	1.21	83.0	4.5	\$983.55
BASF	BX2022GLTP	1,719.1	cde	41.4	38	4.8	34.5	1.20	84.6	4.0	\$962.26
Bayer	18R420B3XF	1,716.5	cde	42.7	37	4.8	30.7	1.16	81.8	2.2	\$930.83
Americot	NG3729B2XF	1,702.7	cde	45.5	39	4.7	32.0	1.21	83.2	3.8	\$948.70
Americot	AMX19A005B3XF	1,696.2	cde	43.6	37	4.3	30.1	1.17	82.1	4.1	\$951.25
Corteva	PHY480W3FE	1,634.2	def	44.9	38	4.4	34.1	1.19	84.2	4.6	\$924.20
Corteva	PHY400WEFE	1,574.8	efg	44.5	38	4.2	33.3	1.18	82.3	4.5	\$889.00
Bayer	DP2055B3XF	1,519.3	fgh	44.5	39	4.5	31.7	1.21	82.7	4.4	\$856.51
Bayer	18R448B3XF	1,503.9	fghi	44.2	40	3.9	35.4	1.24	82.5	4.6	\$850.64
Bayer	18R628NRB3XF	1,500.6	fghi	45.5	37	4.4	34.8	1.17	82.8	4.4	\$846.31
Americot	AMX1816B3XF	1,488.0	fghij	42.7	38	4.1	30.3	1.19	82.7	4.3	\$838.12
BASF	ST5707B2XF	1,449.4	ghijk	42.9	39	4.8	35.2	1.21	84.4	4.0	\$812.29
BASF	ST5600B2XF	1,430.1	ghijk	45.5	39	4.8	35.2	1.22	84.1	3.4	\$792.97
Bayer	DP1549B2XF	1,404.9	hijkl	42.9	37	4.1	33.0	1.15	82.5	3.9	\$785.36
Americot	AMX1828B3XF	1,392.0	hijklm	41.7	39	4.7	32.4	1.20	83.7	4.6	\$787.09
Corteva	PHY500WEFE	1,376.4	hijklm	45.9	37	4.2	35.0	1.17	83.8	4.5	\$777.46
Americot	NG3956B3XF	1,374.9	hijklm	45.3	37	4.1	32.6	1.15	83.0	4.4	\$775.28
Corteva	PX3D43W3FE	1,366.0	hijklmn	42.0	37	4.8	33.8	1.16	83.7	3.7	\$760.95
Corteva	PX5C45W3FE	1,338.0	ijklmn	42.4	37	4.0	33.0	1.17	83.0	4.4	\$755.13
Americot	NG4098B3XF	1,332.1	ijklmn	41.4	40	4.3	37.8	1.24	82.8	4.6	\$753.31
Americot	NG3930B3XF	1,317.4	klmn	45.7	38	4.6	32.1	1.19	84.4	4.5	\$743.56
Bayer	DP2038B3XF	1,294.7	klmno	42.5	36	4.7	32.5	1.13	82.4	2.8	\$709.72
Gowan	HA1432	1,291.1	klmnop	40.9	40	4.5	35.5	1.26	84.3	4.6	\$730.43
Bayer	DP2022B3XF	1,285.0	klmnop	43.2	37	4.5	29.8	1.14	82.2	3.8	\$717.05
Corteva	PHY580W3FE	1,241.9	lmnop	44.8	38	4.0	33.6	1.18	82.9	3.6	\$693.09
BASF	FM1830GLT	1,236.4	mnop	43.5	39	4.7	32.8	1.21	83.3	3.9	\$691.03
Corteva	PHY210W3FE	1,207.6	nop	43.2	37	4.0	32.8	1.15	83.7	4.4	\$680.79
Corteva	PX5E34W3FE	1,134.8	op	44.5	38	3.9	33.4	1.20	83.7	4.5	\$641.39
Americot	AMX1818B3XF	1,128.1	p	42.7	39	4.2	33.8	1.23	84.1	4.6	\$638.58
Average		1,520.8		43.8	38	4.4	33.0	1.19	83.2	4.1	\$853.08
LSD[§]		178.3		2.4	1	1.9	2.6	0.03	1.1	1.1	\$100.08
OSL[†]		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0075	<0.0001
CV[‡]		7.7		4.0	1.9	6.2	4.8	1.8	1.0	19.0	7.8

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Maricopa, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Staple (32nds)	Strength		Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)	
			Separation*	Percent Lint		Micronaire	Length (in.)				
Corteva	PHY580W3FE	2,082.2	a	44.8	36	5.0	31.0	1.12	82.5	2.1	\$1,125.19
Corteva	PX5C45W3FE	1,988.2	ba	45.7	36	4.9	31.3	1.12	83.0	2.8	\$1,090.02
Corteva	PHY400W3FE	1,966.8	ba	44.6	37	4.8	32.2	1.16	83.1	4.3	\$1,107.16
Corteva	PHY480W3FE	1,958.0	ba	42.9	38	4.8	32.3	1.18	84.4	4.5	\$1,106.23
BASF	ST5707B2XF	1,890.1	bc	40.8	38	5.3	35.7	1.19	84.2	1.5	\$1,012.35
Corteva	PHY350W3FE	1,824.9	bcd	43.2	37	4.8	31.2	1.18	82.9	4.3	\$1,026.93
Bayer	DP1549B2XF	1,823.4	bcd	41.7	37	4.8	33.4	1.16	83.0	4.4	\$1,027.48
Bayer	DP2012B3XF	1,822.0	bcd	42.8	38	4.9	30.3	1.18	82.6	3.6	\$1,011.35
Americot	NG3729B2XF	1,767.2	ecd	42.1	37	5.3	31.3	1.16	84.0	1.3	\$941.20
Bayer	18R420B3XF	1,680.6	efd	44.4	36	5.1	27.9	1.13	81.2	0.6	\$883.26
Americot	NG4936B3XF	1,664.6	egfd	42.0	38	5.0	29.7	1.17	83.4	3.0	\$915.15
Corteva	PHY500W3FE	1,649.7	hegfd	44.1	37	4.4	34.2	1.15	82.7	4.3	\$928.80
BASF	FM1830GLT	1,642.7	hegfdi	42.8	38	5.2	33.6	1.18	83.2	1.4	\$878.05
Brownfield	1517_18	1,635.9	hegfj	38.8	37	5.3	33.8	1.15	84.1	0.9	\$865.04
Americot	NG3930B3XF	1,623.8	hegfj	42.1	37	4.7	30.8	1.16	83.3	4.2	\$912.00
Bayer	DP2022B3XF	1,620.7	hegfji	38.8	36	4.7	29.4	1.12	82.2	2.1	\$877.00
Brownfield	UA114	1,607.5	hegfji	39.8	37	5.3	33.6	1.17	84.3	1.3	\$857.95
BASF	BX2016GLTP	1,600.2	hegfji	40.3	37	5.3	32.6	1.16	83.2	0.9	\$846.32
BASF	BX2022GLTP	1,586.9	hegfjki	43.7	38	5.3	33.6	1.19	83.3	1.4	\$848.02
Bayer	18R448B3XF	1,579.3	hlgfkji	41.1	39	4.5	33.4	1.23	82.0	4.6	\$893.49
Bayer	18R410B3XF	1,551.6	hlgmkji	44.5	37	5.1	29.9	1.14	82.5	2.1	\$838.51
Americot	19A005B3XF	1,538.1	hlgmfkji	43.6	37	5.2	29.3	1.13	82.5	1.3	\$819.32
BASF	BX2002GL	1,533.3	hlgmfkji	44.7	37	4.8	32.6	1.16	84.1	3.1	\$845.96
BASF	ST4550GLTP	1,515.6	hlngmfkji	45.9	37	5.3	34.3	1.17	84.2	1.1	\$803.99
Bayer	DP2020B3XF	1,503.0	hlngmfkji	42.0	38	4.8	30.3	1.18	82.9	3.6	\$836.97
Corteva	PX3D32W3FE	1,499.4	hlngmfkji	43.2	39	4.8	34.8	1.21	83.4	4.6	\$847.90
BASF	BX2005GLT	1,485.5	hlngmfkji	46.6	38	5.4	34.4	1.18	84.6	1.1	\$789.19
Americot	NG4098B3XF	1,482.7	hlngmfkji	42.4	39	4.8	37.0	1.23	84.1	4.6	\$839.07
Corteva	PX3D43W3FE	1,472.8	hlnmkji	43.8	37	5.1	35.5	1.18	84.8	2.2	\$798.74
Americot	AMX1816B3XF	1,462.9	lnmkji	40.1	37	4.5	29.9	1.14	83.0	3.9	\$817.84
Bayer	DP2055B3XF	1,461.5	lnmkji	43.3	38	5.1	30.7	1.18	81.0	2.0	\$788.54
BASF	ST5600B2XF	1,460.5	lnmkji	43.4	38	5.4	34.5	1.18	83.8	1.1	\$775.01
Bayer	DP1948B3XF	1,440.2	lnmkji	44.0	38	4.9	35.5	1.19	83.1	4.0	\$806.27
Gowan	HA1432	1,412.7	lnmokji	33.8	43	4.1	41.6	1.32	84.5	4.7	\$801.35
Brownfield	UA222	1,403.6	lnmokji	40.3	38	4.8	30.8	1.17	83.2	3.0	\$772.62
Corteva	PHY210W3FE	1,395.5	nmo	39.6	36	4.6	31.6	1.14	83.1	3.8	\$777.77
BASF	BX2076GLTP	1,381.3	pnmo	41.3	37	5.3	32.9	1.16	83.6	1.3	\$736.68
Corteva	PX5E34W3FE	1,349.5	pno	41.7	38	4.3	33.0	1.18	82.7	4.4	\$761.19
Americot	NG3956B3XF	1,339.4	pnmo	37.1	36	4.5	29.8	1.12	82.9	3.1	\$737.99
Americot	AMX1828B3XF	1,249.8	poq	42.3	37	5.1	31.9	1.17	83.8	2.0	\$675.04
Bayer	DP2038B3XF	1,209.1	prq	47.3	36	5.3	30.2	1.11	81.9	-0.4	\$624.80
BASF	BX2037GLT	1,155.5	rq	45.6	37	5.0	34.0	1.15	82.4	2.6	\$630.71
Americot	NG3994B3XF	1,005.3	r	43.3	37	5.2	30.9	1.15	82.6	1.7	\$538.98
Americot	AMX1818B3XF	1,000.8	r	40.1	38	4.6	34.9	1.17	83.7	4.5	\$565.27
Average		1,552.8		42.4	37	4.9	32.5	1.17	83.2	2.7	\$849.61
LSD§		183.3		1.1	0.9	0.3	1.7	0.03	1.2	1.2	\$100.89
OSL†		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV‡		8.4		1.9	1.8	3.8	3.8	1.8	1.0	32.8	8.5

* 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

Yield and fiber quality data for The University of Arizona Upland Cotton Advanced Strain Testing Program, Safford, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
Bayer	DP2038B3XF	2,009.5	a*	48.0	35	4.8	27.7	1.08	80.8	0.8	\$1,062.36
Bayer	DP1549B2XF	1,940.0	ab	43.2	36	4.2	30.6	1.12	81.1	3.4	\$1,075.91
BASF	BX2002GL	1,896.9	abc	48.4	35	4.7	31.6	1.10	82.7	2.8	\$1,038.97
Americot	NG4098B3XF	1,880.3	bcd	44.2	38	4.4	33.5	1.17	81.4	4.2	\$1,057.24
Bayer	DP1948B3XF	1,834.3	bcde	47.3	38	4.3	32.5	1.20	83.0	4.4	\$1,035.20
Corteva	PX5D28W3FE	1,810.4	cdef	45.7	35	4.3	30.7	1.09	82.6	2.4	\$983.57
Bayer	18R448B3XF	1,763.6	defg	44.7	37	4.1	32.1	1.16	80.0	4.3	\$991.82
BASF	BX2037GLT	1,759.3	defg	47.8	37	4.5	33.1	1.17	82.7	4.3	\$991.08
Bayer	DP2055B3XF	1,758.0	defg	44.6	37	4.8	29.8	1.14	81.8	2.9	\$966.17
Corteva	PHY480W3FE	1,725.9	efg	44.9	36	4.2	29.9	1.12	82.9	3.4	\$956.88
Bayer	DP2022B3XF	1,701.9	fgh	41.7	36	4.1	27.4	1.10	80.3	2.6	\$928.83
Bayer	DP2012B3XF	1,677.1	gh	43.7	37	4.4	29.4	1.14	82.2	3.7	\$934.36
Corteva	PHY580W3FE	1,586.3	hi	46.1	34	4.2	28.8	1.06	81.5	0.7	\$835.19
Americot	NG3930B3XF	1,551.9	ij	42.1	36	4.5	28.0	1.12	83.0	2.9	\$852.63
BASF	FM1830GLT	1,539.0	ij	45.0	37	4.7	31.3	1.15	82.2	3.9	\$860.67
Americot	AMX1828B3XF	1,536.0	ijk	45.0	36	4.6	28.3	1.13	81.7	3.5	\$852.84
Corteva	PX3D32W3FE	1,529.8	ijk	44.8	37	4.5	31.2	1.14	82.4	3.7	\$852.77
Corteva	PX3D43W3FE	1,522.7	ijk	44.8	36	4.6	30.8	1.11	83.1	3.5	\$846.06
Corteva	PX5C45W3FE	1,514.2	ijkl	46.3	34	4.5	28.0	1.05	81.7	0.4	\$792.95
BASF	BX2005GLT	1,510.7	ijkl	47.4	36	4.9	31.3	1.13	83.3	3.3	\$836.49
Corteva	PHY350W3FE	1,501.7	ijklm	43.3	36	4.3	29.2	1.11	83.2	3.1	\$827.13
Bayer	18R628NRB3XF	1,485.1	ijklmn	48.2	36	4.3	30.9	1.11	81.3	2.9	\$815.06
Bayer	18R420B3XF	1,475.0	ijklmn	46.8	34	4.9	24.9	1.06	79.8	-2.3	\$735.03
Bayer	DP2020B3XF	1,449.3	ijklmnop	42.9	36	4.6	27.5	1.11	81.4	3.1	\$798.16
BASF	FM1621GL	1,430.7	ijklmnop	47.8	35	5.1	29.9	1.10	82.3	0.9	\$756.49
Americot	NG4936B3XF	1,413.6	klmnop	43.2	37	4.5	28.9	1.14	81.4	3.7	\$787.85
BASF	BX2076GLTP	1,392.3	lmnopq	44.8	36	4.9	31.3	1.12	83.5	2.7	\$761.62
Americot	NG3729B2XF	1,387.2	mnopq	44.0	35	4.7	28.4	1.10	82.1	2.4	\$754.80
Corteva	PX5E34W3FE	1,367.2	nopq	42.1	36	3.9	30.9	1.13	82.2	3.6	\$760.14
BASF	BX2016GLTP	1,351.4	opq	41.9	36	4.6	28.2	1.12	82.1	3.5	\$749.49
Americot	AM19A005B3XF	1,325.9	pq	44.2	37	4.5	29.9	1.15	82.3	3.3	\$733.26
Americot	NG3994B3XF	1,316.7	pq	46.5	35	4.7	27.9	1.10	81.3	2.4	\$716.75
Americot	NG3956B3XF	1,313.3	pq	40.7	35	4.5	28.6	1.07	82.1	1.5	\$702.52
BASF	BX2022GLTP	1,287.2	qr	44.1	36	4.7	30.6	1.11	82.7	3.3	\$712.05
BASF	FM2398GLTP	1,186.3	rs	45.6	36	5.3	29.2	1.11	82.7	0.4	\$621.97
Corteva	PHY400W3FE	1,152.7	st	46.5	35	4.4	29.4	1.08	81.4	1.9	\$621.12
BASF	ST4550GLTP	1,151.3	st	46.0	36	4.5	30.9	1.11	83.2	2.9	\$631.18
Corteva	PHY210W3FE	1,137.7	st	42.2	35	4.6	28.8	1.09	82.4	2.5	\$619.84
Americot	AMX1816B3XF	1,087.0	st	40.3	35	4.3	26.5	1.09	80.9	2.1	\$588.01
Americot	AMX1818B3XF	1,059.1	t	42.6	36	4.3	31.5	1.12	82.6	3.5	\$588.51
Bayer	18R410B3XF	905.4	u	44.3	36	4.5	27.0	1.11	82.5	2.1	\$489.46
Average		1,493.3		44.7	36	4.5	29.7	1.11	82.0	2.7	\$817.62
LSD‡		123.02		1.5	1	0.3	1.7	0.03	1.3	1.4	\$71.82
OSL†		<0.0001		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV‡		5.9		2.4	2.1	4.5	4.2	2.1	1.1	37.2	6.3

* 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

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Yuma, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple		Strength			Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade	(32nds)	Micronaire	(g/tex)	Length (in.)	Leaf Grade			
Deltapine	DP1725B2XF	1,748.8	a*	37.6	21	37	4.7	30.1	1.15	3	81.0	3.5	\$971.63
Phytogen	PHY400W3FE	1,706.8	ab	36.3	21	36	4.7	31.9	1.12	2	81.4	4.1	\$958.45
Deltapine	DP1646B2XF	1,599.0	abc	37.4	21	38	4.7	30.8	1.18	2	80.8	4.9	\$909.98
Stoneville	ST4550GLTP	1,597.0	abc	38.6	21	36	5.2	31.2	1.11	3	82.6	0.3	\$835.02
NexGen	NG3729B2XF	1,580.7	bc	34.8	21	38	5.1	31.1	1.18	3	82.4	2.3	\$858.37
DynaGro	DG3385B2XF	1,534.7	c	35.6	21	36	4.9	30.3	1.14	2	82.5	4.3	\$863.85
Phytogen	PHY350W3FE	1,362.5	d	33.0	21	38	4.4	32.6	1.18	2	82.5	5.0	\$776.36
DynaGro	DG3555B3XF	1,310.9	d	31.8	21	39	4.5	33.0	1.20	3	83.3	4.7	\$743.46
NexGen	NG4936B3XF	1,301.3	d	34.0	21	38	4.6	30.9	1.19	2	82.2	4.7	\$739.83
Stoneville	ST5471GLTP	1,288.9	d	34.0	21	37	4.8	31.7	1.14	3	81.6	3.6	\$715.98
Average		1,503.1		35.3	---	37	4.8	31.4	1.16	3	82.0	3.7	\$837.29
LSD§		162.0		1.4	---	2	0.3	1.7	NS	NS	1.3	1.7	\$92.26
OSL†		<0.0001		<0.0001	---	0.0064	0.0002	0.0362	0.0945	0.5871	0.0155	0.0005	<0.0001
CV‡		6.3		2.3	---	2.3	3.3	3.3	3.7	21.4	0.9	27.3	6.4

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Goodyear, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple		Strength			Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade	(32nds)	Micronaire	(g/tex)	Length (in.)	Leaf Grade			
Deltapine	DP1549B2XF	1,469.2	a*	33.1	41	37	4.3	34.2	1.17	4	81.9	1.0	\$779.87
Phytogen	PHY400W3FE	1,286.6	b	33.8	51	37	4.7	34.3	1.16	6	82.8	-3.0	\$630.53
Deltapine	DP1948B3XF	1,272.3	b	34.7	51	41	4.2	36.8	1.27	6	84.0	-4.0	\$611.05
Phytogen	PHY350W3FE	1,246.1	bc	33.4	51	38	4.8	34.1	1.18	5	83.7	-1.5	\$631.39
DynaGro	DG3385B2XF	1,242.9	bc	32.9	41	37	5.0	32.5	1.17	4	84.2	-0.5	\$639.73
Deltapine	DP1725B2XF	1,217.5	bcd	35.2	51	37	4.6	32.5	1.16	4	82.1	-1.4	\$616.28
NexGen	NG4936B3XF	1,156.3	bcd	33.0	41	39	4.9	32.7	1.20	4	83.1	1.0	\$612.88
NexGen	NG3729B2XF	1,116.7	cde	33.0	51	38	4.8	33.3	1.18	6	83.8	-3.4	\$543.48
Stoneville	ST4550GLTP	1,112.5	cde	37.3	51	38	4.8	35.7	1.18	5	84.2	-2.6	\$550.40
Stoneville	ST5471GLTP	1,087.5	de	30.8	41	36	5.0	34.2	1.13	4	82.2	0.1	\$566.93
DynaGro	DG3555B3XF	972.2	e	29.7	51	39	3.8	35.7	1.23	7	84.4	-4.8	\$458.87
Average		1,198.2		33.4	---	38	4.6	34.2	1.18	5	83.3	-1.7	\$603.76
LSD§		147.3		1.6	---	1	0.2	1.3	0.03	1	0.6	2.2	\$85.05
OSL†		<.0001		<.0001	---	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
CV‡		8.5		3.3	---	1.5	3.1	2.6	1.5	16.3	0.5	86.1	9.7

* 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

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Stanfield, AZ, 2019.

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.)				
Deltapine	DP1646B2XF	1,677.5	a*	34.1	21	38	4.8	32.0	1.18	2	83.3	4.4	\$946.40
Phytogen	PHY350W3FE	1,629.0	ab	33.5	31	38	4.8	32.6	1.18	2	83.3	4.8	\$924.44
Deltapine	DP1948B3XF	1,619.7	ab	36.5	31	39	4.7	34.2	1.22	3	83.3	4.6	\$916.05
Dynagro	DG3470B3XF	1,573.1	ab	36.3	21	37	5.2	32.2	1.15	2	84.2	2.9	\$864.09
Phytogen	PHY480W3FE	1,472.0	abc	32.7	21	38	4.4	33.2	1.18	3	83.6	4.8	\$836.13
Nexgen	NG4936B3XF	1,464.1	abc	32.4	21	38	5.0	31.2	1.20	2	83.6	3.8	\$818.32
Stoneville	ST5600B2XF	1,400.6	bc	33.2	21	38	5.4	33.2	1.18	2	83.4	1.5	\$749.20
Dynagro	DG3520B3XF	1,296.6	cd	33.0	31	38	4.6	33.5	1.20	2	83.9	5.0	\$738.48
Stoneville	ST4550GLTP	1,276.1	cd	34.6	21	37	4.9	34.2	1.17	2	83.7	4.3	\$718.41
Nexgen	NG3994B3XF	1,085.2	d	32.6	31	37	4.9	31.3	1.16	3	82.4	4.3	\$611.58
Average		1,449.4		33.9	---	38	4.9	32.8	1.18	2	83.5	4.0	\$812.31
LSD§		251.6		2.8	---	2	0.2	1.7	0.05	1	1.0	1.8	\$142.30
OSL†		0.002		0.0488	---	0.4844	<0.0001	0.0098	0.0416	0.0030	0.1253	0.0231	0.0018
CV‡		10.1		4.8	---	2.3	2.9	3.0	2.2	16.1	0.7	26.6	10.2

* 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

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Queen Creek, AZ, 2019.

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.)				
Stoneville	ST5707B2XF	1,595.1	a	34.5	21	38	5.3	34.5	1.20	2	83.6	1.9	\$860.08
Deltapine	DP1948B3XF	1,582.3	a	37.5	21	40	5.0	33.9	1.22	2	84.3	4.1	\$888.83
Phytogen	PHY480W3FE	1,571.4	a	36.5	21	37	4.6	31.6	1.18	2	83.8	5.1	\$896.55
Deltapine	DP1845B3XF	1,562.3	a	37.5	21	39	4.8	34.5	1.21	3	82.8	5.0	\$891.04
FiberMax	FM1830GLT	1,409.6	b	36.9	21	38	4.9	34.1	1.21	2	83.6	4.2	\$792.35
NexGen	NG4936B3XF	1,349.3	bc	34.1	21	39	4.9	30.7	1.20	1	83.1	4.5	\$762.37
Phytogen	PHY350W3FE	1,324.3	bc	33.4	21	37	4.8	31.3	1.16	2	82.6	4.9	\$753.87
DynaGro	DG3555B3XF	1,277.0	c	32.5	21	38	4.4	33.2	1.20	2	84.3	5.4	\$732.53
NexGen	NG3994B3XF	1,133.5	d	36.7	31	37	5.2	30.0	1.13	2	81.1	1.6	\$607.60
DynaGro	DG3520B3XF	1,131.4	d	31.2	21	39	4.1	33.6	1.22	3	85.0	5.2	\$647.10
Average		1,393.6		35.1	---	38	4.8	32.7	1.19	2	83.4	4.2	\$783.23
LSD§		91.5		1.6	---	1	0.1	1.2	0.02	1	0.9	1.1	\$53.53
OSL†		<.0001		<.0001	---	<.0001	<.0001	<.0001	<.0001	0.0095	<.0001	<.0001	<.0001
CV‡		4.5		3.1	---	1.3	2.0	2.4	1.3	23.6	0.8	17.4	4.7

* 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

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Marana, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple		Strength			Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade	(32nds)	Micronaire	(g/tex)	Length (in.)	Leaf Grade			
Phytogen	PHY350W3FE	1,095.1	a*	30.2	31	37	4.0	30.1	1.16	4	80.7	2.9	\$601.66
Deltapine	DP1725B2XF	1,083.2	a*	34.0	31	36	4.6	28.3	1.11	3	79.6	3.6	\$602.06
Phytogen	PHY400W3FE	1,076.7	a*	33.9	31	36	4.0	30.9	1.12	4	80.0	3.3	\$595.22
DynaGro	DG3470B3XF	1,014.7	ab	34.1	31	36	4.6	30.0	1.11	3	81.6	2.8	\$555.50
FiberMax	FM2398GLTP	996.8	ab	34.8	31	37	5.0	31.0	1.16	3	81.6	1.8	\$536.42
Deltapine	DP1948B3XF	976.2	ab	35.9	41	38	4.1	32.6	1.18	5	81.8	1.0	\$517.59
NexGen	NG3729B2XF	849.8	bc	29.9	41	36	4.4	28.4	1.13	4	80.5	1.7	\$455.52
NexGen	NG4936B3XF	800.1	c	28.9	31	37	4.1	29.5	1.17	3	81.0	4.2	\$449.47
DynaGro	H959B3XF	591.5	d	27.2	31	38	4.3	31.1	1.17	3	80.3	4.4	\$333.70
Stoneville	ST5707B2XF	582.8	d	28.2	31	37	4.7	34.0	1.16	3	82.5	3.6	\$324.00
Average		906.7		31.7	---	37	4.4	30.6	1.15	3	81.0	2.9	\$497.12
LSD§		167.0		1.5	---	1	0.2	2.0	0.06	1	1.3	2.0	\$92.29
OSL†		<0.0001		<0.0001	---	0.0158	<0.0001	0.0003	0.0088	0.0251	0.0038	0.0268	<0.0001
CV‡		10.7		2.7	---	2.1	3.0	3.8	3.3	20.2	0.9	38.9	10.8

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Thatcher, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means			Staple		Strength			Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint	Color Grade	(32nds)	Micronaire	(g/tex)	Length (in.)	Leaf Grade			
FiberMax	FM2574GLT	1,533.5	a*	39.2	21	37	4.6	32.0	1.18	2	82.4	5.0	\$873.78
FiberMax	FM2398GLT	1,517.6	a	38.1	21	37	4.6	30.9	1.15	1	82.3	5.0	\$865.55
Phytogen	PHY480W3FE	1,483.2	a	35.5	21	37	4.0	31.0	1.14	3	82.2	4.4	\$836.35
Deltapine	DP1549B2XF	1,480.6	a	36.6	21	36	4.1	32.4	1.13	2	81.3	4.7	\$839.85
Deltapine	DP1948B3XF	1,456.9	ab	38.6	21	40	4.0	32.9	1.23	3	82.7	4.8	\$826.80
NexGen	NG4936B3XF	1,339.9	bc	35.5	21	38	4.3	29.6	1.17	1	82.4	5.0	\$763.27
DynaGro	DG3385B2XF	1,270.0	cd	35.7	21	36	4.4	29.5	1.11	2	81.2	3.8	\$708.42
Phytogen	PHY400W3FE	1,256.0	cd	34.8	21	36	3.9	32.6	1.12	3	80.6	4.2	\$706.06
NexGen	NG3930B3XF	1,211.0	cd	33.1	21	37	3.9	31.2	1.16	2	81.4	4.9	\$689.37
DynaGro	DG3402B3XF	1,193.5	d	34.1	21	36	4.4	31.6	1.14	2	81.9	3.0	\$658.25
Average		1,374.2		36.1	---	37	4.2	31.4	1.15	2	81.8	4.5	\$776.77
LSD§		134.3		2.4	---	2	0.6	NS	0.09	NS	NS	NS	\$87.97
OSL†		<0.0001		0.0007	---	0.0013	0.1158	0.0915	0.0002	0.3671	0.1463	0.5744	0.0002
CV‡		5.7		4.0	---	2.3	8.3	4.5	17.9	4.3	1.0	27.5	6.6

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Upland Cotton Variety Testing Program, Bonita, AZ, 2019.

Seed Company	Variety	Seedcotton		Staple (32nds)	Micronaire	Strength		Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value ** (\$/acre)		
		Yield (lbs/acre)	Yield Means Separation*			Percent Lint	Color Grade					(g/tex)	Length (in.)
Deltapine	DP1908B3XF	1,206.5	a*	34.0	31	38	3.4	29.7	1.19	3	82.1	-0.1	\$624.77
Deltapine	FM2574GLT	1,195.2	a	34.9	31	38	3.7	29.5	1.20	3	82.3	2.5	\$650.39
FiberMax	DP2012B3XF	1,155.4	ab	32.8	31	37	4.0	28.2	1.15	3	82.1	4.0	\$646.44
Deltapine	DG3385B2XF	1,114.2	bc	34.5	31	36	4.3	27.1	1.11	2	82.1	2.3	\$605.43
Phytogen	PHY350W3FE	1,088.0	c	32.5	31	37	3.5	27.7	1.13	3	81.1	0.9	\$574.82
DynaGro	PHY400W3FE	1,064.4	cd	36.5	31	36	4.0	28.8	1.11	3	80.6	3.1	\$586.43
DynaGro	DP1612B2XF	1,063.3	cd	31.7	31	38	3.6	29.4	1.17	3	82.2	-1.2	\$539.50
NexGen	NG3930B3XF	1,058.6	cde	33.2	31	37	3.9	27.7	1.14	2	82.0	3.5	\$587.13
NexGen	H929B3XF	1,009.2	def	31.2	31	37	4.0	30.4	1.14	3	82.1	1.1	\$535.25
Phytogen	FM2398GLTP	997.2	ef	34.5	31	37	4.4	27.8	1.13	2	81.8	4.1	\$559.27
FibnerMax	NG3780B2XF	985.5	f	31.7	41	36	3.5	29.3	1.14	4	80.8	-0.5	\$508.00
Phytogen	PHY210W3FE	886.1	g	31.3	31	36	3.7	30.3	1.15	3	82.0	1.6	\$474.72
Phytogen	PHY250W3FE	849.1	g	33.2	31	37	4.0	31.3	1.16	3	82.5	4.3	\$477.70
Average		1,046.2		33.3	---	37	3.8	29.1	1.15	3	81.8	1.8	\$562.61
LSD§		62.3		2.6	---	1	0.6	1.9	0.08	NS	NS	NS	\$58.76
OSL†		<0.0001		<0.0001	---	0.0009	0.0412	0.0015	0.0319	0.4305	0.1107	0.1693	<0.0001
CV‡		3.3		2.6	---	1.6	9.1	3.5	3.6	25.5	0.9	134.0	5.4

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Pima Cotton Variety Testing Program, Thatcher, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means		Staple (32nds)	Micronaire	Strength		Uniformity Index (%)	Premium (cents/lb)	Price (cents/lb)	Value ** (\$/acre)
			Separation*	Percent Lint			(g/tex)	Length (in.)				
Deltapine	19R347RF	1,493.2	a	41.0	49	5.3	42.7	1.42	87.8	0.0	96.4	\$1,439.42
Deltapine	DP359RF	1,419.3	b	39.2	48	5.0	42.1	1.40	85.7	0.0	96.4	\$1,368.23
Corteva	PHY888RF	1,409.7	b	37.7	50	5.3	42.5	1.45	87.9	0.0	96.4	\$1,358.94
Corteva	PHY881RF	1,404.3	b	38.5	49	5.1	43.6	1.42	87.4	0.0	96.4	\$1,353.79
Corteva	PX8504RF	1,366.3	b	37.6	50	5.1	42.4	1.46	87.9	0.0	96.4	\$1,317.11
Deltapine	DP341RF	1,305.0	c	37.4	51	5.1	43.7	1.47	87.7	0.0	96.4	\$1,258.07
Average		1,399.6		38.6	49	5.2	42.8	1.44	87.4	0.0	96.4	\$1,349.26
LSD§		60.3		1.0	1	0.3	3.5	0.03	1.3	---	---	\$58.14
OSL†		0.001		<0.0001	0.0085	0.2856	0.8582	0.0011	0.0286	---	---	0.0010
CV‡		2.4		1.4	1.4	2.9	4.5	1.1	0.8	---	---	2.4

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Pima Cotton Advanced Strain Testing Program, Safford, AZ, 2019.

Seed Company	Variety	Lint Yield (lbs/acre)	Yield Means Separation*	Percent Lint	Staple (32nds)	Micronaire	Strength (g/tex)	Length (in.)	Uniformity Index (%)	Premium (cents/lb)	Price (cents/lb)	Value ** (\$/acre)
Deltapine/OA	18-3-12	1,153.6	a*	37.0	48	5.1	46.0	1.37	86.7	0.0	96.2	\$1,110.02
Deltapine/OA	16-1-8	1,147.5	a	36.5	48	4.5	44.5	1.40	86.8	0.0	96.4	\$1,106.19
Deltapine/OA	18-3-25	1,141.5	a	36.8	48	5.0	46.8	1.40	87.0	0.0	96.4	\$1,100.45
Corteva	PHY881RF	1,123.1	ab	37.3	49	4.8	45.8	1.41	86.8	0.0	96.4	\$1,082.66
Corteva	PX8504RF	1,119.0	ab	38.0	49	5.0	45.7	1.41	87.1	0.0	96.4	\$1,078.76
Deltapine	19R347RF	1,118.1	ab	40.1	49	4.8	45.6	1.40	86.7	0.0	96.4	\$1,077.82
Corteva	PHY888RF	1,114.9	ab	36.8	49	5.0	46.0	1.43	87.4	0.0	96.4	\$1,074.75
Deltapine	DP359RF	1,087.6	abc	37.1	48	5.0	46.6	1.38	86.7	0.0	96.4	\$1,048.43
Deltapine/OA	18-2-21	1,086.1	abc	36.9	48	4.9	46.4	1.38	87.2	0.0	96.2	\$1,045.25
Deltapine/OA	18-1-34	1,067.5	abc	36.7	48	4.8	46.8	1.38	86.2	0.0	96.4	\$1,029.07
Deltapine/OA	17-62-4	1,054.6	abc	37.0	48	5.3	46.1	1.39	86.7	0.0	96.2	\$1,014.72
Deltapine/OA	18-3-28	1,035.3	abc	35.4	48	5.0	44.9	1.39	87.3	0.0	96.2	\$996.41
Deltapine/OA	18-3-22	1,010.6	bc	36.3	47	4.8	46.7	1.38	87.3	0.0	96.1	\$971.18
Deltapine/OA	17-62-50	1,001.4	bc	38.8	49	4.9	46.2	1.42	86.8	0.0	96.4	\$965.33
Deltapine	DP341RF	982.1	c	36.4	48	4.8	46.5	1.41	86.9	0.0	96.4	\$946.76
Deltapine/OA	18-1-36	978.1	c	37.2	47	5.0	47.2	1.36	86.5	0.0	95.9	\$938.09
Average		1,076.3		37.1	48	4.9	46.1	1.39	86.9	0.0	96.3	\$1,036.62
LSD§		125.4		1.4	NS	0.3	NS	0.03	NS	---	---	\$120.82
OSL†		0.0587		<0.0001	0.1330	0.0366	0.9724	0.0061	0.7706	---	---	0.0514
CV‡		8.2		2.6	2.1	4.9	4.8	1.7	0.9	---	---	8.2

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Yield and fiber quality data for The University of Arizona Pima Cotton Advanced Strain Testing Program, Maricopa, AZ, 2019.

Seed Company	Variety	Seedcotton	Yield Means		Staple (32nds)	Micronaire	Strength	Length (in.)	Uniformity	Premium	Price	Value **
		Yield (lbs/acre)	Separation*	Percent Lint			(g/tex)		Index (%)	(cents/lb)	(cents/lb)	(\$/acre)
Deltapine/OA	18-1-34	505.9	a*	35.6	48	4.4	44.1	1.41	87.8	0.0	96.4	\$487.65
Deltapine/OA	18-1-36	494.4	a	35.2	47	4.5	44.5	1.38	86.4	0.0	96.1	\$475.03
Deltapine/OA	18-3-25	469.6	ab	35.2	49	4.0	43.6	1.43	86.9	0.0	96.4	\$452.69
Corteva	PX8504RF	458.0	abc	36.3	51	4.3	44.1	1.48	87.8	0.0	96.4	\$441.54
Deltapine/OA	17-62-50	455.3	abc	36.1	50	4.5	43.5	1.45	87.3	0.0	96.4	\$438.88
Deltapine/OA	16-1-8	454.3	abc	35.4	51	4.0	44.6	1.48	88.0	0.0	96.4	\$437.92
Deltapine/OA	18-3-22	450.5	abc	34.8	50	4.1	44.1	1.48	88.0	0.0	96.4	\$434.28
Deltapine	19R347RF	423.3	bcd	35.5	48	4.4	43.5	1.45	87.8	0.0	96.4	\$408.01
Deltapine	DP341RF	421.8	bcd	33.9	51	4.1	45.6	1.49	87.4	0.0	96.4	\$406.66
Corteva	PHY881RF	415.6	bcde	34.1	51	4.1	43.3	1.50	87.9	0.0	96.4	\$400.61
Deltapine	DP359RF	411.0	bcde	35.0	51	4.1	43.0	1.48	87.9	0.0	96.4	\$396.18
Deltapine/OA	18-3-12	406.7	bcde	35.8	48	4.4	44.2	1.41	88.0	0.0	96.4	\$392.08
Deltapine/OA	18-3-28	393.4	cde	34.5	49	4.2	43.8	1.45	87.6	0.0	96.4	\$379.21
Deltapine/OA	18-2-21	372.7	de	36.2	49	4.5	43.0	1.43	87.1	0.0	96.4	\$359.28
Corteva	PHY888RF	367.1	de	34.8	50	4.0	45.8	1.47	87.4	0.0	96.4	\$353.91
Deltapine/OA	17-62-4	347.0	e	35.8	49	4.5	46.5	1.42	86.9	0.0	96.4	\$334.50
Average		427.9		35.2	49	4.2	44.2	1.45	87.5	0.0	96.4	\$412.40
LSD§		69.1		0.8	2	0.3	1.4	0.04	0.9	---	---	\$66.59
OSL†		0.0006		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0238	---	---	0.0007
CV‡		11.3		1.7	2.1	4.2	2.2	2.0	0.7	---	---	11.3

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

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

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation