

2020 Upland Cotton Variety Testing Program

University of Arizona

Cooperative Extension
Experiment Station

Trial Results

Funded in part by Cotton Incorporated and Participating Seed Companies

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Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Yuma, AZ, 2020.

Yuma Arizona Location	
County:	Yuma
City:	Yuma
GPS Coordinates:	32.7825, -114.5128
Planting Date:	3/7/20
Seeding Rate:	52,000
Initial Defoliation Date:	8/10/20
Harvest Date:	9/1/20
Tillage:	Conventional
Soil Class:	Holtville Clay
Irrigation System:	Furrow/Flood
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Yuma, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3555B3XF	1.8	6.0
DynaGro	DG3570B3XF	2.1	6.3
Deltapine	DP1646B3XF	1.9	7.0
Deltapine	DP1908B3XF	2.6	6.3
NexGen	NG4098B3XF	2.4	5.7
NexGen	NG4936B3XF	2.1	6.3
Phytogen	PHY390W3FE	2.4	7.7
Phytogen	PHY400W3FE	3.0	8.7
Stoneville	ST4550GLTP	2.1	7.0
Stoneville	ST5707B2XF	2.3	7.3
Mean		2.2	6.8

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Yuma, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)		Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
DynaGro	DG3570B3XF	2295.0	a*	40.9	31	36	5.2	29.0	1.13	1	81.4	1.3	\$1,224.05
Deltapine	DP1646B3XF	2073.6	ab	37.1	31	39	4.6	29.1	1.22	2	81.3	4.3	\$1,167.76
NexGen	NG4936B3XF	2044.9	bc	35.1	21	38	4.7	28.6	1.19	2	81.8	3.9	\$1,143.96
Phytogen	PHY400W3FE	2018.9	bcd	35.7	21	36	4.4	31.2	1.12	2	80.9	4.3	\$1,136.98
Stoneville	ST4550GLTP	2008.4	bcd	40.2	31	37	4.7	31.9	1.17	2	82.9	4.9	\$1,142.13
Phytogen	PHY390W3FE	1947.1	bcde	35.0	31	36	4.5	29.5	1.12	2	80.2	3.2	\$1,075.83
Stoneville	ST5707B2XF	1875.4	bcde	32.5	21	38	5.0	31.8	1.18	1	82.2	3.4	\$1,039.40
NexGen	NG4098B3XF	1809.7	cde	34.6	31	38	4.7	31.7	1.17	2	80.5	3.3	\$1,000.03
DynaGro	DG3555B3XF	1784.1	cd	32.6	21	38	4.4	29.7	1.18	2	81.9	4.7	\$1,011.88
Deltapine	DP1908B3XF	1730.5	e	33.5	31	38	4.6	30.6	1.19	2	81.4	4.6	\$978.75
	Mean	1958.8		35.7	---	37	4.7	30.3	1.17	2	81.4	3.8	\$1,092.08
	LSD [§]	241.8		1.6	---	1	0.3	1.6	0.04	NS	1.6	1.5	\$146.82
	OSL [†]	0.0045		<0.0001	---	0.0051	<0.0001	0.0007	0.0007	0.3609	0.0592	0.0034	0.0309
	CV [‡]	7.2		2.6	---	2.2	3.3	3.0	2.0	34.2	1.1	23.0	7.8

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

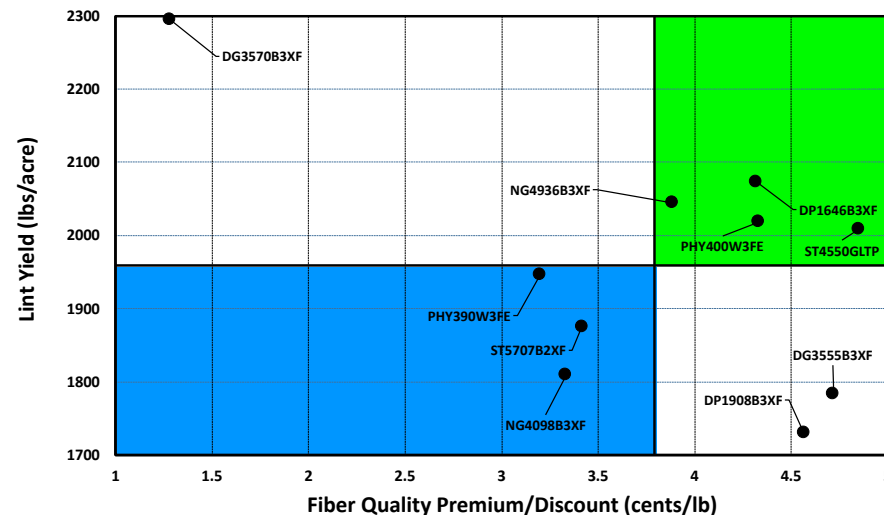


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Yuma, AZ, 2020.

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Goodyear, AZ, 2020.

Goodyear Arizona Location	
County:	Maricopa
City:	Goodyear
GPS Coordinates:	33.4138, -112.3966
Planting Date:	4/21/20
Seeding Rate:	52,000
Initial Defoliation Date:	11/2/20
Harvest Date:	12/16/20
Tillage:	Minimum
Soil Class:	Laveen loam
Irrigation System:	Flat/Flood
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Goodyear, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3555B3XF	1.4	5.0
Deltapine	DG3570B3XF	2.1	6.0
Deltapine	DP1646B3XF	2.6	5.0
Deltapine	DP1948B3XF	1.8	8.0
Gowan Seed	1432	1.5	6.0
NexGen	NG4098B3XF	1.8	7.0
NexGen	NG4936B3XF	2.2	5.0
Phytogen	PHY400W3FE	1.9	8.0
Phytogen	PHY490W3FE	2.3	7.0
Stoneville	ST4550GLTP	1.4	4.0
Stoneville	ST4990B3XF	3.0	5.0
Mean		2.0	6.0

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Goodyear, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)		Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
DynaGro	DG3570B3XF	2153.2	a*	32.7									
Nexgen	NG4936B3XF	2104.5	a	32.0									
Deltapine	DP1948B3XF	2099.6	a	33.3									
Stoneville	ST4990B3XF	1990.7	ab	30.8									
Phytogen	PHY400W3FE	1964.3	ab	31.8									
NexGen	NG4098B3XF	1788.1	bc	29.7									
Deltapine	DP1646B3XF	1619.0	c	31.6									
Phytogen	PHY390W3FE	1597.3	cd	31.0									
DynaGro	DG3555B3XF	1406.4	de	27.2									
Gowan	1432	1377.1	e	30.0									
Stoneville	ST4550GLTP	1332.4	e	32.3									
Mean		1766.6		31.1	---								
LSD [§]		208.0		0.9	---								
OSL [†]		<0.0001		<0.0001	---								
CV [‡]		8.2		2.0	---								

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Stanfield, AZ, 2020.

Stanfield Arizona Location	
County:	Pinal
City:	Stanfield
GPS Coordinates:	32.8140, -111.9590
Planting Date:	4/30/20
Seeding Rate:	54,000
Initial Defoliation Date:	10/29/20
Harvest Date:	12/4/20
Tillage:	Reduced
Soil Class:	Denure sandy loam
Irrigation System:	Subsurface Drip
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Stanfield, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3530B3XF	1.3	2.0
DynaGro	DG3570B3XF	2.1	3.7
Deltapine	DP1646B3XF	1.7	2.3
Deltapine	DP1948B3XF	1.4	1.0
NexGen	NG4098B3XF	2.3	6.7
NexGen	NG4936B3XF	1.4	3.0
Phytogen	PHY350W3FE	1.9	3.7
Phytogen	PHY480W3FE	1.9	5.7
Stoneville	ST4550GLTP	2.5	4.0
Stoneville	ST4990B3XF	1.4	3.0
Mean		1.8	3.5

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Stanfield, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)		Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Deltapine	DP1948B3XF	1333.4	a*	34.2	21	37	4.5	34.3	1.16	2	81.5	5.1	\$760.41
Stoneville	ST4990B3XF	1194.0	ab	31.5	21	36	4.6	29.5	1.12	2	81.0	3.9	\$666.53
Phytogen	PHY480W3FE	1096.6	bc	35.0	21	34	4.2	30.4	1.07	2	80.5	2.0	\$591.40
NexGen	NG4936B3XF	1033.5	bcd	31.2	21	37	4.3	30.4	1.14	1	80.8	4.5	\$584.27
DynaGro	DG3570B3XF	1011.4	bcd	33.1	21	34	5.0	31.2	1.07	2	81.0	0.5	\$528.59
DynaGro	DG3530B3XF	989.6	cd	37.0	21	37	4.0	34.5	1.15	1	82.7	5.0	\$563.71
Stoneville	ST4550GLTP	948.7	cde	34.0	21	35	4.2	33.0	1.10	2	81.9	3.7	\$528.07
NexGen	NG4098B3XF	922.7	cde	27.9	31	37	4.0	36.1	1.17	3	81.0	3.8	\$513.86
Phytogen	PHY350W3FE	885.8	de	28.8	21	34	4.4	29.2	1.07	2	80.6	1.9	\$476.89
Deltapine	DP1646B3XF	763.2	e	34.4	21	37	4.6	31.0	1.16	2	80.7	4.6	\$431.75
Mean		1017.9		32.7	---	36	4.4	32.0	1.12	2	81.2	3.5	\$564.55
LSD[§]		186.3		3.1	---	1	0.2	2.3	NS	NS	NS	1.9	\$99.34
OSL[†]		0.0004		0.0002	---	<0.0001	<0.0001	<0.0001	0.0769	0.0515	0.1804	0.0008	<0.0001
CV[‡]		10.7		5.5	---	1.8	3.0	4.2	4.0	33.0	1.1	31.1	9.9

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

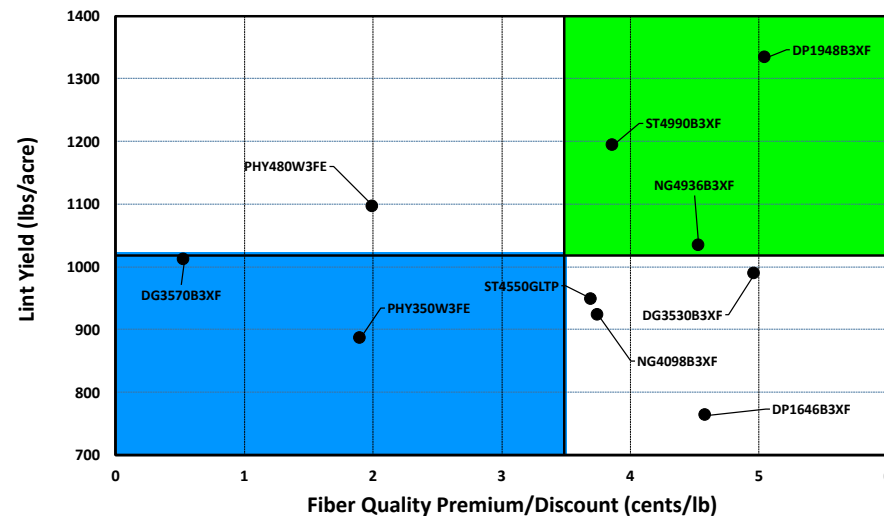


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Stanfield, AZ, 2020.

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Eloy, AZ, 2020.

Eloy Arizona Location	
County:	Pinal
City:	Eloy
GPS Coordinates:	32.6688, -111.5793
Planting Date:	5/5/20
Seeding Rate:	48,000
Initial Defoliation Date:	9/28/20
Harvest Date:	11/23/20
Tillage:	Conventional
Soil Class:	Sasco silt loam
Irrigation System:	Furrow/Flood
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Eloy, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3456B3XF	1.5	5.0
DynaGro	DG3570B3XF	2.4	6.0
Deltapine	DP1948B3XF	2.3	6.0
Deltapine	DP2038B3XF	2.4	6.0
NexGen	NG4098B3XF	2.2	7.0
NexGen	NG4936B3XF	2.7	5.0
Phytogen	PHY350W3FE	2.6	6.5
Phytogen	PHY400W3FE	2.8	6.5
Stoneville	ST4990B3XF	2.5	6.5
Stoneville	ST5610B3XF	2.4	5.5
Mean		2.4	6.0

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Eloy, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)	Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)	
Deltapine	DP2038B3XF	1448.9	a*	37.1	31	36	5.1	30.9	1.12	2	81.1	2.3	\$782.90
Stoneville	ST5610B3XF	1402.9	a	38.5	21	36	4.9	31.1	1.15	1	82.8	3.4	\$777.92
Phytogen	PHY400W3FE	1377.9	ab	37.6	31	37	4.7	30.0	1.15	2	81.4	4.4	\$776.38
Phytogen	PHY350W3FE	1376.1	ab	35.9	31	37	4.7	32.4	1.15	1	80.7	4.6	\$777.92
Deltapine	DP1948B3XF	1285.4	ab	36.0	31	37	4.7	32.8	1.17	2	81.8	4.9	\$731.16
Stoneville	ST4990B3XF	1280.7	ab	33.5	21	37	4.6	29.2	1.15	1	80.8	4.5	\$723.68
DynaGro	DG3570B3XF	1251.5	ab	37.9	21	35	5.4	28.2	1.09	1	81.3	-0.9	\$639.79
NexGen	NG4936B3XF	1179.3	bc	31.3	31	38	4.3	30.4	1.18	2	82.6	4.6	\$667.78
NexGen	NG4098B3XF	1007.0	c	30.2	31	39	4.8	35.6	1.23	3	80.9	4.6	\$570.25
DynaGro	DG3456B3XF	980.9	c	38.5	21	34	4.9	27.1	1.06	2	79.5	-1.5	\$493.32
Mean		1259.1		35.7	---	36	4.8	30.8	1.14	2	81.3	3.1	\$694.11
LSD [§]		210.4		1.6	---	2	0.5	3.7	NS	NS	1.5	NS	\$105.71
OSL [†]		0.0068		<0.0001	---	0.0464	0.0356	0.0204	0.1501	0.0942	0.0272	0.2818	0.0014
CV [‡]		7.4		2.0	---	2.9	4.5	5.4	4.0	31.4	0.8	89.2	6.7

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

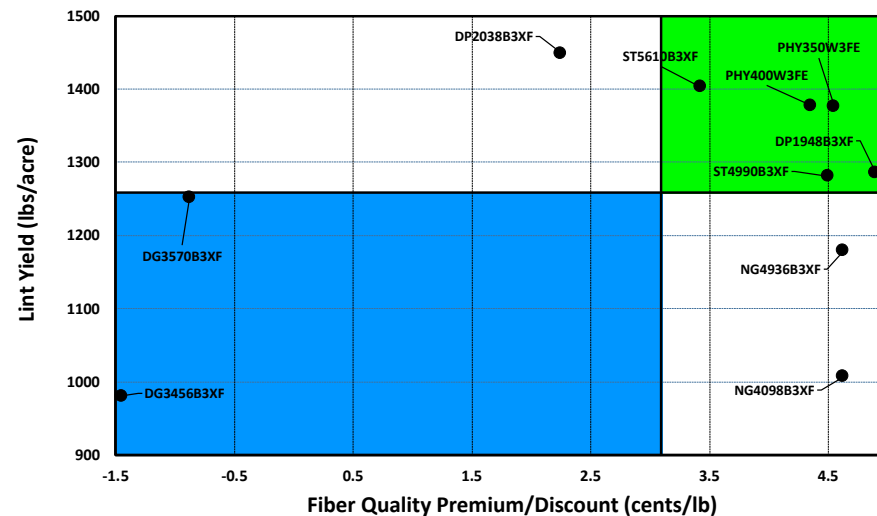


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Eloy, AZ, 2020.

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Marana, AZ, 2020.

Marana Arizona Location	
County:	Pima
City:	Marana
GPS Coordinates:	32.4838, -111.2871
Planting Date:	5/6/20
Seeding Rate:	56,000
Initial Defoliation Date:	10/15/20
Harvest Date:	12/9/20
Tillage:	Conventional
Soil Class:	Glendale loam
Irrigation System:	Furrow/Flood
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Marana, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3456B3XF	1.1	6.0
DynaGro	DG3570B3XF	1.4	5.5
Deltapine	DP1725B2XF	2.1	6.5
Deltapine	DP2012B3XF	2.2	6.0
NexGen	NG4098B3XF	1.8	5.5
NexGen	NG4936B3XF	1.9	6.5
Phytogen	PHY400W3FE	2.5	7.0
Phytogen	PHY480W3FE	2.6	6.5
Stoneville	ST4550GLTP	1.5	6.5
Stoneville	ST4880B3XF	1.8	4.5
Mean		2.0	6.1

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Marana, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)	Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)	
Deltapine	DP1725B2XF	1310.9	a*	35.5	21	36	5.0	28.9	1.12	1	80.8	2.7	\$717.25
Phytogen	PHY480W3FE	1261.5	ab	32.3	21	38	4.5	31.2	1.18	2	82.1	5.1	\$720.17
Deltapine	DP2012B3XF	1259.0	ab	34.4	21	37	4.6	28.3	1.13	2	80.7	4.0	\$705.00
DynaGro	DG3456B3XF	1247.3	ab	35.9	21	35	4.9	27.0	1.10	2	80.2	1.7	\$669.50
DynaGro	DG3570B3XF	1232.4	ab	34.6	21	36	5.1	30.1	1.14	1	81.9	2.2	\$667.44
Phytogen	PHY400W3FE	1207.5	bc	34.2	21	36	4.7	30.7	1.13	2	79.8	4.0	\$675.93
Stoneville	ST4550GLTP	1181.6	bc	35.8	21	37	5.0	31.4	1.15	3	82.5	2.1	\$638.80
Stoneville	ST4480B3XF	1118.1	cd	30.3	21	37	4.5	30.5	1.16	1	80.2	4.9	\$636.49
NexGen	NG4098B3XF	1116.4	cd	29.7	21	39	4.6	33.5	1.21	3	80.9	4.9	\$634.85
NexGen	NG4936B3XF	1063.4	d	29.3	21	38	4.5	30.1	1.20	2	81.8	5.0	\$605.49
Mean		1199.8		---	37	2.7	30.2	1.15	2	81.1	3.7	\$667.09	
LSD [§]		93.6		---	1.3	0.2	1.7	0.06	1	1.2	1.7	51.2	
OSL [†]		0.0001	<0.0001	---	0.0002	<0.0001	<0.0001	0.0246	0.0088	0.0009	0.0003	0.2160	
CV [‡]		5.4		---	2.5	3.1	3.9	3.7	39.1	1.1	32.0	5.3	

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

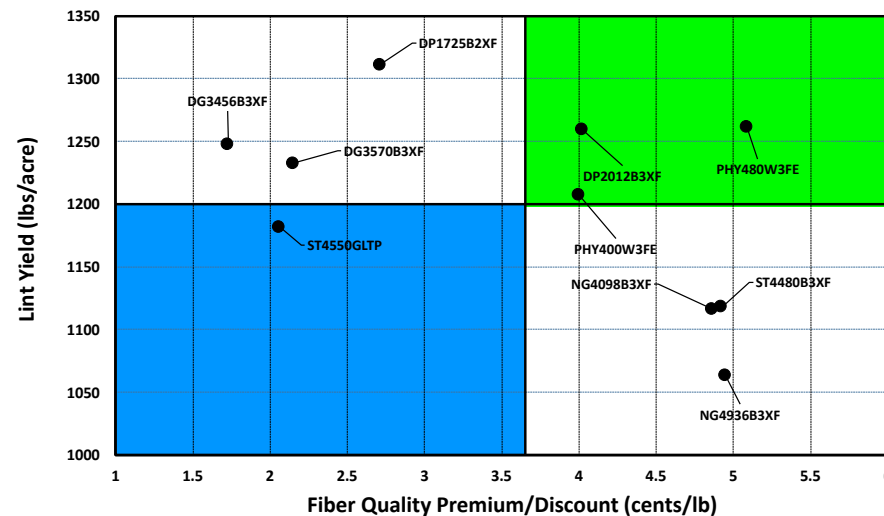


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Marana, AZ, 2020.

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Thatcher, AZ, 2020.

Thatcher Arizona Location	
County:	Graham
City:	Thatcher
GPS Coordinates:	32.8600, -109.7681
Planting Date:	5/1/20
Seeding Rate:	72,000
Initial Defoliation Date:	9/15/20
Harvest Date:	10/23/20
Tillage:	Reduced
Soil Class:	Pima clay loam
Irrigation System:	Subsurface Drip
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Thatcher, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
Deltapine	DP1549B2XF	4.5	5.3
Deltapine	DP2038B3XF	3.9	5.7
FiberMax	FM2022GL	3.4	5.3
FiberMax	FM2574GLT	3.7	5.3
DynaGro	H929	2.8	5.3
DynaGro	H959	3.0	4.7
NexGen	NG4098B3XF	3.1	5.7
NexGen	NG4936B3XF	3.7	5.7
Phytogen	PHY480W3FE	3.9	6.3
Phytogen	PHY580W3FE	4.0	7.0
Mean		3.6	5.6

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Thatcher, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)		Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
Deltapine	DP2038B3XF	1975.3	a*	43.6	21	34	4.7	27.9	1.05	1	79.9	-0.1	\$1,022.94
Deltapine	DP1549B2XF	1603.3	b	35.3	21	36	4.3	31.5	1.12	1	80.5	4.5	\$906.38
Phytogen	PHY480W3FE	1574.6	b	35.6	21	36	4.8	29.5	1.11	2	81.4	3.1	\$868.63
FiberMax	FM2202GL	1546.5	bc	36.8	31	36	4.6	33.3	1.13	1	81.4	4.0	\$866.14
Phytogen	PHY580W3FE	1480.4	bcd	35.7	21	36	4.6	31.4	1.11	2	81.4	3.7	\$824.37
FiberMax	FM2574GLT	1463.9	bcd	36.8	31	37	4.7	33.0	1.16	2	81.8	4.8	\$831.36
DynaGro	H959B3XF	1366.8	cde	31.6	21	35	4.9	30.0	1.11	2	79.3	1.8	\$736.81
NexGen	NG4098B3XF	1364.5	cde	31.0	31	38	4.5	35.4	1.19	2	80.0	4.9	\$776.63
NexGen	NG4936B3XF	1309.5	cd	34.0	21	36	4.9	28.2	1.14	1	80.9	3.0	\$721.11
DynaGro	H929B3XF	1264.6	e	32.9	21	34	4.6	31.9	1.07	1	81.7	2.2	\$685.16
Mean		1495.0		35.3	---	36	4.7	31.2	1.12	2	80.8	3.2	\$823.96
LSD[§]		185.7		2.5	---	1.6	NS	2.0	0.05	1	1.2	NS	\$102.77
OSL[†]		<0.0001		<0.0001	---	0.0012	0.0993	<0.0001	0.0004	0.0146	0.0042	0.0546	<0.0001
CV[‡]		7.2		4.2	---	2.6	4.9	3.7	2.5	28.1	0.9	54.5	7.3

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

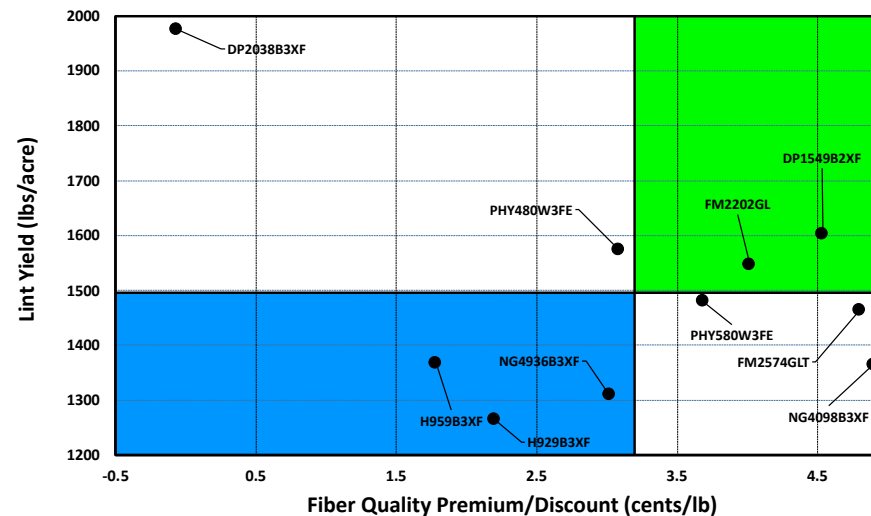


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Thatcher, AZ, 2020.

Table. Trial location and agronomic information for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Bonita, AZ, 2020.

Bonita Arizona Location	
County:	Cochise
City:	Bonita
GPS Coordinates:	32.4564, -109.9482
Planting Date:	4/21/20
Seeding Rate:	44,000
Initial Defoliation Date:	10/7/20
Harvest Date:	11/5/20
Tillage:	Minimum
Soil Class:	Grabe loam
Irrigation System:	Center pivot sprinkler
Harvester Type:	On board module picker
Gin Type:	Miniature commercial gin

Table. Early season stand establishment evaluation from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Bonita, AZ, 2020.

Seed Company	Variety	Plant Population (plants/foot)	Seedling Vigor Rating (0-9 L-H)
DynaGro	DG3402B3XF	1.8	6.3
DynaGro	DG3555B3XF	2.3	5.7
Deltapine	DP1908B3XF	1.9	6.0
Deltapine	DP2012B3XF	2.6	6.7
NexGen	NG4098B3XF	2.3	7.7
NexGen	NG4936B3XF	2.0	6.7
Stoneville	ST4880B3XF	1.8	6.3
Stoneville	ST4990B3XF	2.1	7.0
Mean		2.1	6.5

Table 1. Yield and fiber quality results from the University of Arizona Upland Cotton Variety Testing (UCVT) program, Bonita, AZ, 2020.

Seed Company	Variety	Lint Yield (lbs/acre)		Percent Lint	Color Grade	Staple (32nds)	Micro.	Strength (g/tex)	Length (in)	Leaf Grade	Uniformity Index (%)	Premium (cents/lb)	Value** (\$/acre)
DynaGro	DG3402B3XF	1377.1	a*	34.2	21	35	4.1	26.0	1.10	1	80.9	2.9	\$754.66
Deltapine	DP1908B3XF	1262.7	b	34.7	21	37	4.0	30.0	1.17	2	81.2	5.0	\$719.13
Stoneville	ST4480B3XF	1219.6	bc	34.1	21	38	4.1	31.0	1.18	2	80.7	5.0	\$695.04
Deltapine	DP2012B3XF	1175.4	bcd	32.4	21	38	3.5	29.7	1.19	1	81.5	3.7	\$655.10
NexGen	NG4936B3XF	1134.8	cd	31.4	21	38	4.3	27.9	1.19	1	81.1	4.0	\$635.37
Stoneville	ST4990B3XF	1106.6	d	29.6	21	38	3.7	28.7	1.19	1	81.2	4.7	\$627.83
DynaGro	DG3555B3XF	977.6	e	32.3	21	39	3.7	32.2	1.22	2	82.2	5.3	\$560.03
NexGen	NG4098B3XF	974.5	e	31.1	31	38	3.6	32.0	1.19	3	80.4	5.0	\$554.97
Mean		1153.5		32.5	---	38	3.9	29.7	1.18	2	81.2	4.4	\$650.27
LSD [§]		88.0		2.3	---	1.5	0.5	2.0	0.05	1	NS	NS	\$55.27
OSL [†]		<0.0001		0.0034	---	0.0107	0.0390	0.0001	0.0054	0.0075	0.8539	0.4750	<0.0001
CV [‡]		4.4		4.0	---	2.3	7.0	3.9	2.6	31.2	1.7	32.2	4.9

*Lint yield means followed by the same letter are not statistically different according to Fisher's LSD (Least Significance 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

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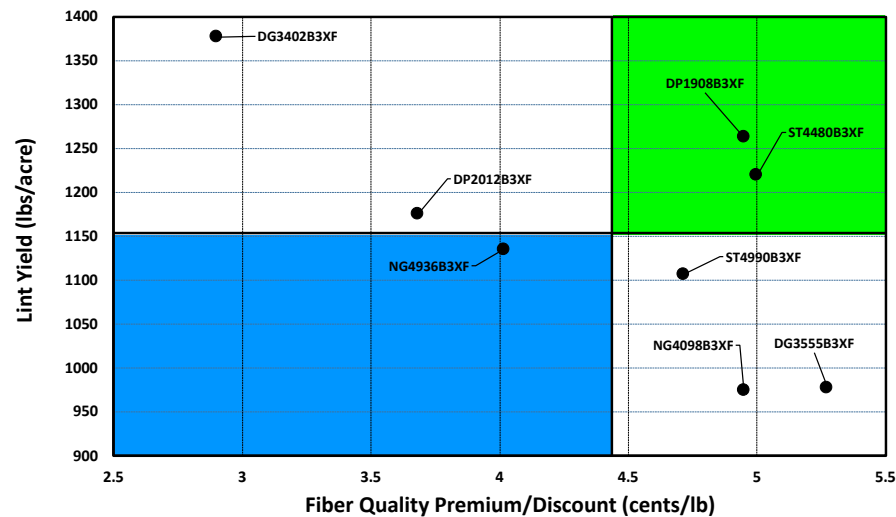


Figure. Yield and fiber quality graph for the University of Arizona Upland Cotton Variety Testing (UCVT) program, Bonita, AZ, 2020.