Grower / Cooperator: A Tumbling T Ranches, Goodyear, AZ

Planting Date: 30 May 2010 **Final Irrigation:** 30 September 2010

Harvest Date: 22 November 2010 **Soil Type:** Gilman loam

Table. Lint yield and fiber quality results from the Variety Trial, Goodyear, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *			Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre				Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	DP1044B2RF	2088.8	a			32.4	31	38	31.4	1.18	83.1	4.2	3	4.5	$1,180.62
Monsanto	DP1032B2RF	1903.8	a	b		34.9	31	38	30.2	1.18	81.7	4.2	2	4.6	$1,077.82
Bayer CropScience	FM9170B2F	1891.8		b		32.8	31	39	32.1	1.20	82.4	3.9	3	3.4	$1,048.09
Phytogen	PHY375WRF	1824.4		b	c	32.9	31	37	29.2	1.17	81.9	4.3	3	4.2	$1,025.33
Monsanto	DP0912B2RF	1774.1		b	c	d	31.8	31	37	30.7	1.13	82.1	4.8	3	4.1	$995.32
Phytogen	PHY367WRF	1748.0		b	c	d	31.8	31	38	31.9	1.17	82.5	4.3	3	4.6	$989.84
Bayer CropScience	ST4288B2F	1669.2			c	d	29.1	31	37	30.1	1.17	81.5	4.4	3	3.0	$918.97
Monsanto	DP1034B2RF	1617.8				d	33.6	21	39	29.5	1.22	83.0	4.1	3	4.7	$917.36
Monsanto	DP1028B2RF	1617.7				d	34.0	21	37	29.2	1.16	81.9	4.4	2	4.8	$918.46
Monsanto	DP161B2RF	1615.8				d	29.0	31	39	32.0	1.21	82.3	4.1	3	4.5	$912.89
Phytogen	PHY565WRF	1614.9				d	31.5	31	39	32.3	1.21	82.9	3.9	3	4.6	$914.03
Bayer CropScience	ST4498B2F	1607.3				d	30.5	31	38	32.9	1.16	83.2	4.3	4	4.0	$899.91
LSD§		192.1					1.7	-	1	1.8	0.04	NS	0.3	0.8	NS	$119.65
OSL†		0.0025					0.0002	-	0.0167	0.0067	0.0104	0.2472	0.0015	0.0385	0.2883	0.0058
CV‡		5.0					2.4	-	1.5	2.7	1.5	0.8	2.9	13.4	15.5	5.5

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: H-4 Farms, Buckeye, AZ

Planting Date: 14 April 2010 **Final Irrigation:** 25 September 2010

Harvest Date: 2 December 2010 **Soil Type:** Rillito Sandy Loam

Table. Lint yield and fiber quality results from the Upland cotton variety trial, Buckeye, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	DP1032B2RF	2113.6	a	36.6	31	37	31.2	1.17	82.5	4.5	2	4.7	$1,198.40
Monsanto	DP1044B2RF	1983.1	b	33.1	31	37	30.3	1.16	82.4	4.8	2	4.6	$1,122.43
Monsanto	DP0949B2RF	1940.3	b c	34.0	31	38	32.5	1.17	83.0	4.7	2	5.0	$1,106.05
Phytogen	PHY367WRF	1874.3	c d	33.5	31	37	32.3	1.17	82.3	4.2	2	4.8	$1,065.05
Monsanto	DP0935B2RF	1847.2	c d e	35.4	31	37	30.9	1.14	81.9	4.9	2	4.0	$1,035.79
Bayer CropScience	ST4498B2F	1800.2	d e f	33.2	31	37	33.0	1.14	83.3	4.6	2	4.9	$1,023.90
Bayer CropScience	ST5458B2F	1783.8	d e f	33.9	31	37	30.7	1.14	81.6	5.0	2	2.9	$978.22
Phytogen	PHY375WRF	1765.1	e f	34.8	21	37	29.9	1.15	82.2	4.6	2	4.6	$999.72
Phytogen	PHY565WRF	1737.9	f	31.5	31	38	33.0	1.17	82.6	4.4	2	4.1	$974.25
Bayer CropScience	FM9170B2F	1483.6	g	32.6	31	38	32.5	1.20	82.6	4.4	2	4.2	$829.78
Bayer CropScience	ST4288B2F	1471.3	g	28.1	31	37	30.3	1.15	81.2	4.4	3	3.8	$821.12
LSD§		90.4		1.1		1	1.6	0.02	0.9	2.0	NS	1.0	$57.43
OSL†		0.0001		0.0001	-	0.0108	0.0004	0.0005	0.0012	0.0001	0.0836	0.0072	0.0001
CV‡		3.5		2.2	-	1.5	3.4	1.4	0.7	2.8	19.3	16.4	3.8

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Tierra Verde Farms, Stanfield, AZ

Planting Date: 15 April 2010 **Final Irrigation:** 28 October 2010

Harvest Date: 15 December 2010 **Soil Type:** Dateland Fine Sandy Loam

Table. Lint yield and fiber quality results from the Upland cotton variety trial, Stanfield, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *				Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre					Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	DP1044B2RF	1934.6	a				36.9	21	36	30.1	1.12	82.3	4.9	3	3.6	$1,076.20
Bayer CropScience	ST4498B2F	1807.3	a	b			36.2	21	35	30.9	1.10	81.9	4.9	2	2.3	$982.60
Phytogen	PHY565WRF	1785.1	a	b			37.5	21	36	30.3	1.12	81.3	4.7	2	4.5	$1,007.81
Phytogen	PHY367WRF	1774.7	a	b	c		36.2	21	37	30.6	1.14	81.5	4.7	3	3.5	$986.58
Monsanto	DP0935B2RF	1670.7		b	c	d	38.2	21	36	31.6	1.12	81.8	4.7	2	4.4	$942.29
Monsanto	DP1032B2RF	1621.7		b	c	d	38.0	21	37	30.5	1.14	81.6	4.7	2	4.0	$909.85
Phytogen	PHY375WRF	1609.3		b	c	d	37.2	21	35	29.0	1.09	81.2	4.9	2	2.3	$870.59
Bayer CropScience	ST4288B2F	1540.1			c	d	34.0	21	36	30.1	1.13	80.7	4.7	2	4.2	$865.25
Bayer CropScience	FM9170B2F	1454.9				d	35.8	21	36	31.1	1.14	81.7	4.8	3	4.3	$819.28
LSD§		243.3					NS	---	NS	NS	NS	NS	NS	NS	NS	$121.66
OSL†		0.0178					0.0572	---	0.1707	0.6119	0.1526	0.4448	0.5491	0.4363	0.1809	0.0086
CV‡		8.3					3.9	---	2.1	1.4	1.8	0.9	3.5	19.9	31.2	7.5

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Pacheco Farms, Marana, AZ

Planting Date: 6 May 2010 **Final Irrigation:** 17 August 2010

Harvest Date: 1 November 2010 **Soil Type:** Vinton Anthony Sandy Loam

Table. Lint yield and fiber quality results from the Variety Trial, Pima County, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *		Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre			Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	DP1044B2RF	1487.7	a		36.7	21	38	29.6	1.18	82.4	4.4	2	4.9	$845.98
Bayer CropScience	FM9170B2F	1432.8	a	b	35.3	21	36	28.9	1.13	81.4	4.1	2	5.2	$819.95
Phytogen	PHY565WRF	1406.0	a	b	32.8	21	37	28.9	1.16	82.4	4.5	2	4.6	$795.75
Bayer CropScience	ST4288B2F	1405.5	a	b	36.9	21	38	30.4	1.19	81.3	4.0	2	5.2	$803.04
Monsanto	DP1032B2RF	1399.7	a	b	35.0	21	37	30.3	1.16	81.7	4.4	2	4.8	$794.49
Phytogen	PHY375WRF	1353.2	a	b	34.8	21	37	28.4	1.15	81.0	4.2	2	4.9	$769.50
Phytogen	PHY367WRF	1306.0	a	b	33.9	21	37	30.9	1.16	81.8	4.2	3	4.9	$743.56
Bayer CropScience	ST4498B2F	1251.8		b	32.2	21	38	31.8	1.19	81.5	4.2	3	4.2	$704.34
Monsanto	DP0935B2RF	1210.1		b	31.7	21	37	29.6	1.15	80.8	4.0	3	4.9	$688.23
LSD§		NS			NS	---	NS	NS	NS	NS	NS	NS	NS	NS
OSL†		0.2377			0.5453	---	0.3343	0.5406	0.3695	0.5355	0.8805	0.7570	0.5613	0.2304
CV‡		7.2			8.0	---	2.2	5.4	2.2	1.0	8.0	39.5	9.5	7.3

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Ed Curry Farms, Pearce, AZ

Planting Date: 27 April 2010 **Final Irrigation:** 10 September 2010

Harvest Date: 17 November 2010 **Soil Type:** Cogswell Clay Loam

Table. Lint yield and fiber quality results from the Variety Trial, Cochise County, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *		Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre			Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Phytogen	PHY375WRF	1054.5	a		35.0	21	36	27.2	1.13	79.8	3.0	3	-0.6	$542.05
Phytogen	PHY745WRF	1019.0	a	b	33.1	31	38	31.6	1.19	81.9	2.9	4	-1.7	$514.04
Bayer CropScience	ST4288B2F	999.2	a	b	31.1	21	37	29.7	1.16	80.4	3.1	3	1.0	$529.78
Phytogen	PHY367WRF	987.0	a	b	33.5	21	37	29.6	1.17	80.4	2.7	3	-2.0	$493.99
Monsanto	DP0935B2RF	917.9	a	b	35.4	21	36	28.9	1.13	79.9	3.0	2	1.0	$486.41
Bayer CropScience	FM9170B2F	910.2	a	b	34.0	21	38	28.4	1.18	80.4	2.7	3	-3.3	$442.84
Bayer CropScience	ST4498B2F	906.9	a	b	32.9	31	37	30.2	1.16	80.7	2.9	4	-3.2	$442.87
Monsanto	DP1044B2RF	823.6		b	30.7	21	37	29.4	1.15	80.6	3.1	3	1.1	$437.84
LSD§		NS			1.3	-	NS	1.5	NS	NS	0.2	0.7	1.8	NS
OSL†		0.3058			0.0001	-	0.4437	0.0009	0.0789	0.1637	0.0017	0.0022	0.0002	0.3231
CV‡		11.9			2.2	-	2.4	2.8	2.1	1.0	3.8	13.0	111.2	13.0

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Layton Farms and Ranches, Thatcher, AZ

Planting Date: 20 April 2010 **Final Irrigation:** 10 September 2010

Harvest Date: 28 October 2010 **Soil Type:** Grabe Clay Loam

Table. Lint yield and fiber quality results from the Variety Trial, Graham County, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *			Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre				Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Phytogen	PHY367WRF	1846.2	a			34.6	21	37	29.9	1.15	81.3	3.5	2	4.0	$1,034.61
Monsanto	DP1133B2RF	1837.4	a	b		36.8	21	37	30.0	1.17	82.1	3.8	2	4.6	$1,041.71
Monsanto	DP0935B2RF	1759.7	a	b	c	35.8	21	36	28.6	1.12	80.3	3.7	2	4.7	$997.34
Bayer CropScience	ST4498B2F	1751.7	a	b	c	33.5	21	36	29.7	1.13	80.9	3.7	2	5.1	$999.45
Bayer CropScience	FM9170B2F	1708.7	a	b	c	33.5	21	38	30.0	1.17	80.3	3.5	2	3.2	$942.68
Phytogen	PHY565WRF	1704.5	a	b	c	34.3	21	37	30.0	1.16	80.7	3.6	2	5.2	$974.41
Monsanto	DP1044B2RF	1704.1	a	b	c	33.3	21	37	28.3	1.15	81.2	3.7	2	4.9	$969.63
Monsanto	DP164B2RF	1666.1	a	b	c	33.6	21	38	29.3	1.19	80.8	3.8	2	5.1	$951.62
Phytogen	PHY755WRF	1621.2		b	c	32.4	21	39	31.3	1.23	82.1	3.7	2	5.4	$930.72
Bayer CropScience	ST4288B2F	1572.3			c	31.2	21	37	29.3	1.15	80.7	3.9	2	5.1	$897.68
LSD§		NS				2.6	-	1	1.2	0.03	NS	NS	-	NS	NS
OSL†		0.3086				0.0002	-	0.0007	0.0030	0.0003	0.0728	0.6179	-	0.3032	0.4516
CV‡		8.3				4.5	-	1.9	2.3	1.7	1.0	7.5	-	20.4	8.9

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: David Stambaugh Farms. Eloy, AZ

Planting Date: 18 April 2010 **Final Irrigation:** 25 August 2010

Harvest Date: 13 October 2010 **Soil Type:** Marana Silty Clay Loam

Table. Lint yield and fiber quality results from the Bayer CropScience Cotton Agronomic Performance (CAP) Trial, Eloy, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Bayer Crop Science	BCSX1030B2F	2401.4	a	35.0	21	37	27.6	1.17	82.4	4.0	2	5.1	$1,370.53
Bayer Crop Science	ST4288B2F	2223.0	a b	31.6	21	38	29.5	1.18	81.4	4.2	2	5.0	$1,266.55
Bayer Crop Science	FM1740B2F	2205.2	a b	35.2	21	37	29.2	1.16	82.1	4.4	2	4.9	$1,255.63
Bayer Crop Science	ST4498B2F	2203.0	a b	34.0	21	37	32.1	1.17	82.9	4.1	2	5.7	$1,270.02
Bayer Crop Science	BCSX1010B2F	2151.6	a b c	33.7	21	38	29.4	1.19	81.2	4.1	2	5.1	$1,228.81
Bayer Crop Science	BCSX1040B2F	2002.4	b c	30.0	21	40	29.2	1.24	82.5	4.2	2	5.1	$1,144.04
Monsanto	DP1034B2RF	1949.2	b c	35.3	21	38	28.1	1.20	81.8	4.1	2	5.0	$1,111.32
Bayer Crop Science	FM9170B2F	1874.5	c d	33.7	21	38	29.4	1.19	81.6	3.8	2	5.1	$1,069.57
Bayer Crop Science	FM9160B2F	1649.1	d e	32.2	21	37	28.0	1.17	81.0	3.9	2	5.0	$939.88
Bayer Crop Science	BCSX1160B2F	1477.1	e	31.2	21	37	28.2	1.15	79.8	3.4	2	2.9	$813.94
LSD§		296.3		1.2	---	2	1.6	0.05	1.2	0.4	---	0.8	$174.31
OSL†		0.0001		0.0001	---	0.0259	0.0007	0.0701	0.0019	0.0014	---	0.0002	0.0001
CV‡		8.6		2.0	---	2.4	3.1	2.5	0.8	5.3	---	9.6	8.9

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Dennis Bagnall Farms, Coolidge, AZ

Planting Date: 14 April 2010 **Final Irrigation:** 20 August 2010

Harvest Date: 12 October 2010 **Soil Type:** Denure Sandy Loam, Mohall Loam

Table. Lint yield and fiber quality results from the Bayer CropScience Cotton Agronomic Performance (CAP) Trial, Coolidge, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *			Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre				Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Bayer CropScience	BCSX1030B2F	1610.2	a			36.1	21	37	27.6	1.14	81.6	4.4	2	4.9	$915.41
Bayer CropScience	ST4498B2F	1604.6	a			34.9	21	37	30.3	1.15	83.3	4.6	2	5.5	$922.10
Bayer CropScience	FM9170B2F	1552.9	a	b		35.7	21	38	29.3	1.19	82.2	4.3	2	5.1	$885.87
Bayer CropScience	ST5458B2F	1540.1	a	b		34.8	21	37	30.1	1.15	81.2	4.5	2	5.0	$877.74
Bayer CropScience	FM1740B2F	1525.0	a	b		34.4	21	38	29.3	1.21	82.5	4.4	2	5.0	$869.52
Bayer CropScience	BCSX1010B2F	1519.6	a	b		32.8	21	38	29.0	1.19	81.5	4.3	2	5.0	$866.05
Monsanto	DP1050B2RF	1466.3	a	b	c	38.1	21	38	28.4	1.18	82.5	4.5	2	5.1	$836.54
Bayer CropScience	BCSX1040B2F	1419.0	a	b	c	32.9	21	39	29.6	1.20	83.4	4.5	2	5.2	$812.02
Bayer CropScience	ST4288B2F	1369.0		b	c	32.3	21	37	28.3	1.15	81.0	4.6	2	4.9	$778.26
Bayer CropScience	FM9160B2F	1290.3			c	34.2	21	38	29.2	1.19	82.4	4.0	2	5.2	$737.68
LSD§		NS				2.6	-	NS	1.2	0.04	1.3	0.2	0.0	0.2	NS
OSL†		0.0883				0.0055	-	0.0748	0.0041	0.0127	0.0113	0.0001	0.0000	0.0008	0.0823
CV‡		8.3				4.3	-	2.0	2.4	1.9	0.9	2.5	0.0	2.6	8.3

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Steve Daley Farms, Thatcher, AZ

Planting Date: 28 April 2010 **Final Irrigation:** 10 September 2010

Harvest Date: 11 November 2010 **Soil Type:** Pima Clay Loam

Table. Lint yield and fiber quality results from the Bayer CropScience Cotton Agronomic Performance (CAP) Trial, Thatcher, AZ, 2010.

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Bayer CropScience	BCSX1030B2F	1630.6	a	35.9	21	35	25.6	1.09	80.5	4.5	2	2.7	$651.98
Bayer CropScience	FM9170B2F	1624.8	a	34.5	21	38	30.0	1.19	81.7	3.9	2	5.2	$676.37
Monsanto	DP0935B2RF	1593.1	a	35.3	21	37	28.6	1.15	81.7	4.2	2	4.9	$682.30
Bayer CropScience	FM9160B2F	1588.9	a	34.5	21	37	29.1	1.17	80.9	3.9	2	5.1	$660.17
Bayer CropScience	ST4498B2F	1582.2	a	34.7	21	37	30.1	1.15	82.3	4.2	2	5.3	$659.45
Bayer CropScience	FM1740B2F	1576.9	a	35.1	21	37	28.5	1.14	81.0	4.2	2	5.0	$653.82
Bayer CropScience	ST5458B2F	1531.4	a	34.5	21	37	28.9	1.14	80.7	4.5	2	4.8	$633.25
Bayer CropScience	BCSX1010B2F	1525.9	a	32.3	21	37	28.3	1.16	81.4	4.1	2	5.0	$633.02
Bayer CropScience	ST4288B2F	1400.5	b	32.8	21	37	27.7	1.14	80.7	4.5	2	4.9	$579.59
Bayer CropScience	BCSX1040B2F	1232.0	c	30.2	21	40	30.1	1.23	82.5	4.5	2	5.2	$512.58
LSD§		120.9		1.4	-	1	1.4	0.04	2.9	0.4	0.0	1.5	$55.78
OSL†		0.0001		0.0001	-	0.0001	0.0001	0.0001	0.0068	0.0029	0.0000	0.0528	0.0002
CV‡		4.6		2.3	-	1.8	2.8	1.7	0.7	4.8	0.0	17.2	5.0

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Grower / Cooperator: Tierra Verde Farms, Coolidge, AZ

Planting Date: 26 April 2010 **Final Irrigation:** 26 September 2010

Harvest Date: 24 November 2010 **Soil Type:** Mohall Sandy Loam

Table. Lint yield and fiber quality results from the Monsanto FACT Trial, Coolidge, AZ, 2010.

Seed Company	Variety	Lint Yield	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre	Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	DP0949B2RF	1732.1	35.7	31	37	31.1	1.16	82.6	4.6	3	4.5	$977.79
Monsanto	DP1044B2RF	1660.1	33.9	31	37	30.2	1.16	82.7	4.3	3	4.3	$933.82
Monsanto	10R020B2R2	1570.8	34.1	31	36	28.6	1.12	82.3	4.6	2	4.1	$881.23
Monsanto	DP1133B2RF	1568.8	36.2	41	38	32.2	1.18	84.5	4.5	3	2.6	$856.55
Monsanto	DP0912B2RF	1560.7	33.2	41	37	30.4	1.15	80.4	4.6	3	2.0	$842.76
Phytogen	PHY375WRF	1541.8	34.6	31	36	28.8	1.13	81.5	4.5	2	4.1	$864.94
Bayer CropScience	ST4498B2F	1510.6	34.4	31	37	29.9	1.17	83.1	4.0	4	3.3	$835.36
Monsanto	10R040B2R2	1477.5	35.2	31	38	30.0	1.18	81.7	4.3	2	4.5	$834.05
Bayer CropScience	ST4288B2F	1474.5	30.2	31	38	29.7	1.18	80.9	4.1	3	4.2	$828.65
Monsanto	DP1032B2RF	1453.4	35.3	31	37	30.3	1.17	82.3	4.2	2	4.6	$822.63
Monsanto	10R052B2R2	1452.8	36.7	31	37	28.9	1.17	82.6	4.6	2	4.4	$819.36
Monsanto	10R015B2R2	1446.2	35.7	31	36	27.9	1.12	82.4	4.5	2	4.1	$811.32
Bayer CropScience	ST5458B2F	1434.2	32.4	31	38	31.8	1.18	80.8	4.2	4	3.3	$793.09
Monsanto	10R047B2R2	1416.6	35.4	21	38	28.7	1.19	83.5	4.4	2	5.2	$809.60
Monsanto	DP1137B2RF	1409.0	36.5	31	36	28.9	1.11	79.0	4.5	2	3.4	$779.90
Monsanto	10R051B2R2	1372.5	37.0	31	38	28.2	1.20	82.8	4.1	2	4.6	$776.12
Monsanto	10R013B2R2	1339.4	33.1	41	39	31.1	1.22	82.7	4.0	3	2.6	$730.62
Monsanto	10R030B2R2	1230.6	33.5	31	38	28.9	1.20	81.6	3.9	2	4.4	$693.42
Monsanto	10R050B2R2	1230.2	27.1	31	38	33.3	1.20	81.7	3.8	2	4.8	$698.73
Monsanto	10R026B2R2	1123.2	33.6	31	38	30.7	1.19	82.9	4.1	2	5.0	$640.23

2010 Upland Cotton Advanced Strain Evaluation, Yuma, AZ

Grower / Cooperator: Harrison Farms, Yuma, AZ

Planting Date: 17 March 2010 **Final Irrigation:** 27 August 2010

Harvest Date: 3 September 2010 **Soil Type:** Lagunita Loamy Sand, Ripley Silt Loam

2010 Upland Cotton Advanced Strain Evaluation, Maricopa, AZ

Grower / Cooperator: UA Maricopa Ag Center, Maricopa, AZ

Planting Date: 13 April 2010 **Final Irrigation:** 18 September 2010

Harvest Date: 4 November 2010 **Soil Type:** Casa Grande Clay Loam

2010 Upland Cotton Advanced Strain Evaluation, Safford, AZ

Grower / Cooperator: UA Safford Ag Center, Safford, AZ

Planting Date: 29 April 2010 **Final Irrigation:** 5 September 2010

Harvest Date: 27 October 2010 **Soil Type:** Grabe Clay Loam, Anthony Clay Loam

Table. Lint yield and fiber quality results from the 2010 Advanced Strain Evaluation Trial, Yuma, AZ

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	10R013B2R2	2103.8	a	36.9	21	36	29.9	1.13	81.4	4.6	2	4.9	$961.27
Phytogen	PHY499WRF	2005.1	a b	38.1	21	35	31.1	1.11	82.3	4.5	2	4.6	$1,064.36
Monsanto	10R050B2R2	1999.4	a b c	37.7	21	35	29.9	1.10	80.3	4.4	2	3.0	$1,032.68
ACGA	ACGA039	1997.9	a b c	37.5	21	37	30.9	1.15	81.3	4.4	2	5.2	$1,143.08
Phytogen	PHY367WRF	1920.2	a b c d	36.4	21	35	27.2	1.08	80.1	4.5	2	2.7	$1,101.74
Monsanto	DP1032B2RF	1917.9	a b c d	39.2	21	35	27.6	1.10	80.2	4.4	2	3.6	$957.56
Bayer CropScience	ST5458B2F	1908.8	a b c d	35.9	21	36	29.3	1.11	81.1	4.7	2	4.4	$1,077.68
Monsanto	10R015B2R2	1850.8	a b c d e	39.4	21	35	27.8	1.10	82.5	4.8	2	3.7	$962.71
Phytogen	PHY375WRF	1842.1	a b c d e	37.3	21	36	28.1	1.10	80.7	4.2	2	3.6	$973.47
ACGA	ACGA082	1829.9	a b c d e f	34.4	21	39	32.7	1.20	82.8	4.5	2	5.3	$1,050.87
ACGA	ACGA225	1821.4	b c d e f	34.8	21	36	29.4	1.12	81.7	4.8	2	4.8	$949.98
ACGA	ACGA246	1813.6	b c d e f	33.2	21	36	31.0	1.11	81.5	4.4	2	4.6	$985.10
Monsanto	10R020B2R2	1798.6	b c d e f g	37.0	21	35	25.6	1.07	81.5	4.5	2	2.0	$942.45
ACGA	ACGA250	1774.6	b c d e f g	35.0	21	36	32.6	1.13	81.0	4.4	2	5.1	$1,034.64
Bayer CropScience	FM1740B2F	1766.0	b c d e f g	37.8	21	34	27.1	1.06	80.3	4.8	2	1.1	$874.17
Phytogen	PHY565WRF	1740.1	b c d e f g	35.3	21	36	31.2	1.13	81.2	4.2	2	5.3	$1,134.63
Monsanto	DP1133B2RF	1736.9	b c d e f g	41.2	21	35	29.1	1.10	82.3	4.9	2	3.4	$935.72
Bayer CropScience	ST5288B2F	1736.5	b c d e f g	36.0	21	35	27.0	1.09	80.9	4.6	2	2.9	$933.01
Monsanto	DP0949B2RF	1726.6	b c d e f g	37.6	21	35	28.9	1.09	81.6	4.6	2	4.3	$971.80
Monsanto	DP1137B2RF	1723.6	c d e f g	40.5	21	34	27.8	1.07	82.3	4.7	2	2.7	$853.73
ACGA	ACGA189	1715.2	d e f g	34.2	21	37	31.5	1.17	82.2	4.3	2	5.4	$996.47
Bayer CropScience	FM9170B2F	1708.0	d e f g	36.4	21	37	29.4	1.14	80.6	3.8	2	4.2	$888.25
ACGA	ACGA229	1698.1	d e f g	36.0	21	37	31.2	1.15	81.8	4.5	2	5.2	$1,049.19
Monsanto	10R026B2R2	1698.1	d e f g	39.2	21	36	28.1	1.10	81.4	4.4	2	4.4	$1,196.67
ACGA	ACGA264	1673.6	d e f g	32.6	21	39	32.8	1.21	82.1	4.8	2	4.5	$971.58
Bayer CropScience	ST4288B2F	1653.6	d e f g	33.0	21	36	28.2	1.11	81.1	4.4	2	4.4	$692.50
Phytogen	PHY519WRF	1628.3	e f g	35.6	21	34	27.6	1.08	80.3	4.3	2	3.6	$1,025.67
Bayer CropScience	BCSX1030B2F	1615.4	e f g	36.9	21	34	26.0	1.05	80.2	3.9	2	0.8	$944.18
ACGA	ACGA265	1581.5	e f g	33.2	21	37	31.4	1.15	82.2	4.6	2	5.3	$1,024.16
Bayer CropScience	BCSX1040B2F	1554.9	f g	31.4	21	38	29.5	1.20	82.3	4.5	2	5.1	$906.59
Bayer CropScience	FM9160B2F	1522.5	g h	34.3	21	36	26.8	1.12	81.3	3.7	2	4.0	$850.26
ACGA	ACGA276	1520.6	g h	34.2	21	38	32.8	1.17	83.1	4.7	2	5.5	$1,013.47
Phytogen	PHY569WRF	1274.1	h	34.6	21	35	29.9	1.07	81.0	4.3	2	2.4	$905.29
LSD§		279.6		0.0	-	1	1.6	0.04	1.2	0.3	2.0	2.3	$165.60
OSL†		0.0001		0.0001	-	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0012	0.0001
CV‡		11.2		4.8	-	2.5	3.8	2.4	1.0	5.3	5.1	40.2	11.8

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Table. Lint yield and fiber quality results from the 2010 Advanced Strain Evaluation Trial, Maricopa, AZ

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Monsanto	10R050B2R2	2006.7	a	34.8	31	38	34.1	1.18	82.4	4.5	2	4.0	$1,122.72
Phytogen	PHY499WRF	1867.9	a b	35.6	31	36	31.5	1.13	82.7	4.4	3	4.4	$1,053.09
Monsanto	DP1044B2RF	1813.5	b c	33.4	31	36	30.7	1.14	81.9	4.8	2	3.6	$1,007.14
Phytogen	PHY375WRF	1742.5	b c d	34.3	41	37	31.3	1.16	82.8	4.5	2	1.9	$938.47
Monsanto	DP1133B2RF	1644.6	c d e	35.8	31	38	33.0	1.20	83.5	4.4	3	4.0	$920.86
Phytogen	PHY367WRF	1643.6	c d e	32.8	31	37	31.7	1.15	82.4	4.5	3	4.7	$932.17
Bayer CropScience	BCSX1030B2F	1600.0	d e f	33.7	31	36	29.6	1.13	81.6	4.3	2	2.7	$875.24
Monsanto	10R047B2R2	1583.2	d e f g	35.1	31	38	29.6	1.17	82.5	4.7	2	4.6	$895.51
Monsanto	10R020B2R2	1554.6	e f g h	33.2	41	36	29.4	1.12	82.3	4.3	2	3.3	$859.20
Phytogen	PHY519WRF	1522.4	e f g h i	33.6	31	37	31.5	1.14	82.5	4.6	3	4.4	$857.87
ACGA	0143-2036-303-601	1517.7	e f g h i j	32.9	31	38	32.3	1.18	82.8	4.6	2	3.0	$835.19
Monsanto	10R026B2R2	1508.1	e f g h i j k	33.9	41	37	30.1	1.16	82.0	4.5	2	4.9	$858.81
Bayer CropScience	ST5458B2RF	1491.8	e f g h i j k	32.9	41	37	30.9	1.14	81.6	4.7	3	2.8	$818.82
Phytogen	PHY565WRF	1476.8	e f g h i j k l	31.8	31	37	32.9	1.17	82.7	4.1	3	3.6	$820.65
Monsanto	10R051B2R2	1470.0	f g h i j k l	35.5	31	36	29.4	1.14	82.4	4.7	2	4.2	$825.10
Monsanto	10R040B2R2	1465.0	f g h i j k l	34.8	31	38	30.8	1.18	82.6	4.3	2	4.0	$820.13
Bayer CropScience	ST5288B2F	1436.0	f g h i j k l m	33.6	41	36	29.2	1.12	81.6	4.8	4	1.4	$767.22
ACGA	39-501-601-701-801	1432.1	f g h i j k l m	34.3	41	37	32.2	1.18	82.9	4.5	2	3.9	$800.61
ACGA	0109-2027-302-601-701	1425.3	g h i j k l m	30.2	31	38	32.3	1.18	82.1	4.6	2	3.0	$784.13
ACGA	0136-2026-303-601	1418.7	g h i j k l m	31.0	41	37	31.0	1.16	82.7	4.5	2	4.7	$803.71
ACGA	0122-2033-303-701	1410.7	h i j k l m n	34.3	31	37	32.5	1.15	82.9	4.5	2	4.9	$801.99
ACGA	0144-2086-3B-701	1403.9	h i j k l m n	32.1	41	37	31.9	1.17	82.4	4.4	2	2.2	$760.50
Bayer CropScience	BCSX1040B2F	1380.4	i j k l m n	28.7	21	38	31.5	1.20	82.3	4.5	3	2.1	$746.12
Bayer CropScience	ST4288B2F	1370.5	i j k l m n	28.7	41	37	30.6	1.16	81.6	4.3	3	2.8	$750.34
Bayer CropScience	FM1845LLB2	1368.4	i j k l m n	30.8	31	38	32.4	1.19	82.5	4.5	3	3.7	$761.95
Bayer CropScience	FM9170B2F	1359.8	i j k l m n	32.1	31	38	32.3	1.19	82.5	4.2	3	2.7	$743.77
Monsanto	DP1137B2RF	1354.5	i j k l m n	35.2	41	38	30.8	1.19	83.3	4.4	2	3.2	$747.30
ACGA	0119-2016-303-601-701	1353.2	i j k l m n	31.6	31	38	32.6	1.19	82.0	4.7	2	4.6	$765.65
ACGA	0120-2029-301-501-601-701-801	1349.9	j k l m n	30.6	41	39	34.5	1.24	83.4	4.8	3	3.9	$755.25
Phytogen	PHY569WRF	1348.2	j k l m n	32.2	31	38	32.9	1.18	83.5	4.0	2	4.9	$767.57
ACGA	0105-2005-303-601	1343.7	k l m n	31.0	31	38	32.2	1.20	82.8	4.4	3	3.9	$750.40
ACGA	0109-2026-310-601-701	1338.9	k l m n	29.0	31	39	34.0	1.23	82.9	4.8	2	3.9	$749.03
Bayer CropScience	FM1740B2F	1316.6	l m n	33.4	31	37	31.7	1.14	82.7	4.5	2	3.1	$726.01
Monsanto	10R052B2R2	1280.0	m n o	35.6	31	38	30.8	1.18	82.8	4.3	2	3.9	$713.44
Bayer CropScience	FM1773LLB2	1241.8	n o	30.5	31	39	33.7	1.22	82.7	4.6	2	4.0	$696.55
Bayer CropScience	FM9160B2F	1115.7	o	31.6	31	36	29.6	1.13	81.3	4.2	2	3.8	$622.57
LSD§		170.8		0.7	-	1	2.0	0.04	NS	0.3	0.8	NS	$101.92
OSL†		0.0001		0.0001	-	0.0001	0.0001	0.0001	0.4337	0.0001	0.0050	0.0589	0.0001
CV‡		7.1		1.4	-	2.1	3.9	2.1	1.1	3.9	20.6	34.5	7.7

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation

Table. Lint yield and fiber quality results from the 2010 Advanced Strain Evaluation Trial, Safford, AZ

Seed Company	Variety	Lint Yield	Means Separation *	Lint Turnout	HVI Color	Staple	Strength	Length	Uniformity	Micronaire	Leaf Grade	Premium	Value
		lbs/acre		Percent		32nds	g/tex	Inches	Percent			cent/lb	$/acre
Phytogen	PHY519WRF	1730.4	a	38.3	31	37	29.1	1.14	80.9	4.1	2	4.4	$975.24
Monsanto	DP1133B2RF	1631.7	a b	41.4	31	37	29.4	1.14	82.3	4.6	2	4.4	$920.71
Bayer CropScience	FM9170B2F	1610.7	a b c	38.4	31	37	28.7	1.16	81.3	4.1	2	4.2	$904.23
Bayer CropScience	FM9160B2F	1576.1	b c d	36.9	31	37	29.0	1.17	81.6	4.1	2	4.4	$889.00
ACGA	0117-2006-306-601	1540.5	b c d e	37.5	21	37	30.3	1.16	82.0	4.5	2	4.8	$875.09
Monsanto	10R050B2R2	1533.7	b c d e	38.9	31	38	30.5	1.17	80.5	4.2	2	4.6	$868.30
Monsanto	DP1032B2RF	1526.2	b c d e f	40.6	31	37	28.3	1.14	80.6	4.4	2	4.2	$857.32
Monsanto	DP1044B2RF	1520.1	b c d e f	36.6	31	37	28.9	1.14	81.7	4.2	2	4.2	$854.15
ACGA	0106-2004-3B-701	1518.3	b c d e f	37.8	31	37	30.7	1.17	81.4	4.4	2	4.7	$860.13
Phytogen	PHY755WRF	1509.4	b c d e f	36.5	31	38	31.1	1.20	81.1	4.2	2	4.7	$854.86
Bayer CropScience	FM1740B2F	1504.5	b c d e f	37.8	31	36	28.4	1.12	80.4	4.4	2	3.4	$832.05
Bayer CropScience	BCSX1030B2F	1493.6	b c d e f g	38.5	31	36	27.7	1.10	80.4	4.3	2	3.8	$833.25
ACGA	0116-2B-326-701	1492.4	b c d e f g	38.0	31	36	29.8	1.11	81.5	4.4	2	4.0	$835.59
ACGA	0116-2015-309-501-601-701-801	1489.7	b c d e f g	35.1	31	39	32.7	1.21	82.9	4.6	2	4.7	$844.20
Monsanto	DP0935B2RF	1486.7	b c d e f g	38.7	31	36	28.9	1.13	80.7	4.3	2	3.9	$830.26
Monsanto	10R020B2R2	1483.5	c d e f g	38.5	31	35	27.8	1.10	81.7	4.4	2	2.9	$814.50
ACGA	0120-2029-301-501-601-701	1478.7	c d e f g	35.4	31	39	32.3	1.20	82.5	4.6	2	4.9	$841.66
Bayer CropScience	ST5458B2F	1453.9	d e f g h	36.1	31	36	28.7	1.12	80.2	4.2	2	3.9	$812.93
Phytogen	PHY565WRF	1443.4	d e f g h i	36.4	31	37	29.6	1.15	81.8	4.0	2	4.5	$815.40
Monsanto	10R026B2R2	1442.2	d e f g h i j	39.6	31	37	28.5	1.13	81.2	4.4	2	4.3	$812.00
Phytogen	PHY499WRF	1439.2	d e f g h i j k	37.5	31	36	29.2	1.12	81.3	4.4	2	4.2	$809.37
Monsanto	10R051B2R2	1426.5	e f g h i j k	41.5	31	37	27.0	1.14	82.1	4.4	2	4.2	$802.21
Monsanto	DP1137B2RF	1383.3	f g h i j k l	40.8	31	35	27.2	1.11	81.0	4.6	2	3.3	$764.85
Phytogen	PHY569WRF	1355.5	g h i j k l m	38.2	31	36	29.3	1.12	82.3	4.2	2	4.2	$762.17
Bayer CropScience	BCSX1010B2F	1350.6	g h i j k l m n	36.0	31	36	27.5	1.13	80.3	4.3	2	4.0	$756.74
Phytogen	PHY367WRF	1315.4	h i j k l m n o	36.9	31	36	29.1	1.12	80.4	3.9	2	3.6	$730.96
Bayer CropScience	ST5288B2F	1297.9	i j k l m n o	37.1	31	36	28.1	1.13	80.6	4.2	2	3.4	$717.52
Monsanto	10R052B2R2	1294.9	j k l m n o	42.2	31	36	28.0	1.14	81.7	4.3	2	4.2	$727.28
Bayer CropScience	FM1845LLB2	1292.7	k l m n o	35.9	31	38	30.0	1.19	81.9	4.4	2	4.6	$731.51
ACGA	0119-2006-307-601-701	1255.0	l m n o	36.8	31	36	28.1	1.11	81.1	4.7	2	3.4	$695.28
ACGA	0105-2005-303-601	1252.1	l m n o	36.0	31	37	30.3	1.16	81.6	4.3	3	4.5	$707.18
Monsanto	10R040B2R2	1216.9	m n o p	40.3	31	36	27.4	1.13	80.8	4.2	2	3.8	$679.46
Bayer CropScience	ST4288B2F	1207.8	m n o p q	35.5	31	35	27.3	1.10	80.4	4.6	2	3.1	$666.61
ACGA	39-501-601-701-801	1204.2	n o p q	37.3	31	37	29.6	1.14	81.1	4.3	3	4.0	$673.78
ACGA	0143-2036-303-601	1202.4	o p q	37.4	31	37	30.8	1.15	80.7	4.3	3	4.3	$676.55
Bayer CropScience	FM1773LLB2	1100.0	p q r	35.4	31	37	29.2	1.15	79.5	4.3	2	3.9	$615.09
Bayer CropScience	BCSX1040B2F	1066.3	q r	32.7	31	39	29.9	1.21	82.1	4.3	2	4.6	$603.90
ACGA	0122-2033-307-701	957.8	r	35.4	21	37	30.6	1.14	80.9	4.0	2	4.8	$544.06
LSD§		147.7		0.0	-	1	1.6	0.04	1.2	0.3	0.3	1.1	$84.12
OSL†		0.0001		0.0001	-	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0454	0.0001
CV‡		7.5		2.7	-	2.4	4.0	2.4	1.0	4.8	10.2	19.7	7.7

*Means followed by the same letter are not statistically different according to a Fisher's least significant difference means separation test.

§ Least Significant Difference

† Observed Significance Level

‡ Coefficient of Variation