

**Grower / Cooperator:** H-4 Farms, Buckeye, AZ  
**Planting Date:** 14 April 2010  
**Harvest Date:** 2 December 2010

**Final Irrigation:** 25 September 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 lbs/acre	Means Separation *	Lint Turnout Percent	HVI Color	Staple 32nds	Strength g/tex	Length Inches	Uniformity Percent	Micronaire	Leaf Grade	Premium cent/lb	Value \$/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