



Table 1. Harvest results from the Custer County irrigated RACE trial, Merlin Schantz Farm, Hydro, OK, 2012.

Entry	Lint turnout	Seed turnout	Burr cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/tech cost	Net value
	----- % -----		----- lb/acre -----			---\$/lb---			----- \$/acre -----			
PhytoGen 499WRF	33.5	49.6	5287	1771	2623	0.5648	1000	328	1328	159	69	1101 a
Deltapine 1219B2RF	31.1	50.6	5413	1682	2741	0.5793	974	342	1317	162	64	1090 a
Stoneville 4288B2F	28.7	50.2	5244	1507	2633	0.5522	831	329	1160	157	68	935 b
NexGen 1511B2RF	32.1	46.0	4943	1589	2276	0.5412	858	285	1143	148	63	932 b
FiberMax 1944GLB2	31.9	50.3	4743	1512	2386	0.5562	841	298	1139	142	70	927 b
NexGen 4012B2RF	31.3	49.1	4775	1493	2346	0.5597	835	293	1128	143	61	924 b
Grower's FiberMax 1740B2F	32.7	49.3	4643	1517	2290	0.5413	821	286	1107	139	68	900 b
All-Tex Nitro 44 B2RF	28.2	47.9	4544	1281	2178	0.5807	744	272	1016	136	65	815 b
Test average	31.2	49.1	4949	1544	2434	0.5594	863	304	1167	148	66	953
CV, %	3.0	2.2	7.7	7.5	7.7	1.7	7.3	7.7	7.4	7.7	---	7.9
OSL	<0.0001	0.0030	0.0966†	0.0064	0.0212	0.0008	0.0040	0.0213	0.0082	0.1017	---	0.0056
LSD	1.7	1.9	546	202	329	0.0169	111	41	151	NS	---	132

For net value/acre, means within a column with the same letter are not significantly different.

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.

Note: some columns may not add up due to rounding error.

Assumes:

\$3.00/cwt ginning cost.

\$250/ton for seed.

Value for lint based on CCC loan value from grab samples and FBRI HVI results.

Color grades set to 21, leaf grades set to 2 for entire trial.



Table 2. Agronomic and fiber quality results from the Custer County irrigated RACE trial, Merlin Schantz Farm, Hydro, OK, 2012.

Entry	Final population	Final plant height	Storm resistance	Micronaire	Staple	Strength	Uniformity
	plants/acre	inches	1-9 visual scale*	units	32nds inch	g/tex	%
All-Tex Nitro 44 B2RF	42,108	34.4	6.2	4.7	38.4	35.2	83.2
Deltapine 1219B2RF	36,784	32.0	5.2	4.7	38.0	35.0	81.9
FiberMax 1944GLB2	36,784	31.6	6.2	5.2	37.6	33.2	81.7
Grower's FiberMax 1740B2F	35,332	31.1	6.0	5.3	35.3	31.0	82.2
NexGen 1511B2RF	38,236	35.0	5.3	5.4	35.2	32.4	80.8
NexGen 4012B2RF	33,880	35.6	5.8	5.0	35.6	31.6	81.7
PhytoGen 499WRF	39,688	34.3	4.5	4.9	36.6	33.0	83.4
Stoneville 4288B2F	41,624	30.6	5.5	5.2	37.1	31.3	82.1
Test average	38,055	33.1	5.6	5.0	36.7	32.8	82.1
CV, %	12.1	4.9	9.3	2.9	1.9	2.1	0.8
OSL	0.3556	0.0090	0.0183	0.0001	0.0002	<0.0001	0.0055
LSD	NS	2.8	0.9	0.3	1.2	1.2	1.1

CV - coefficient of variation.

OSL - observed significance level, or probability of a greater F value.

LSD - least significant difference at the 0.05 level, † indicates significance at the 0.10 level, NS - not significant.

\*Visual storm resistance scale: 1=loose, 9=tight.

Assumes:

\$3.00/cwt ginning cost.

\$250/ton for seed.

Color grades set to 21, leaf grades set to 2 for entire trial.