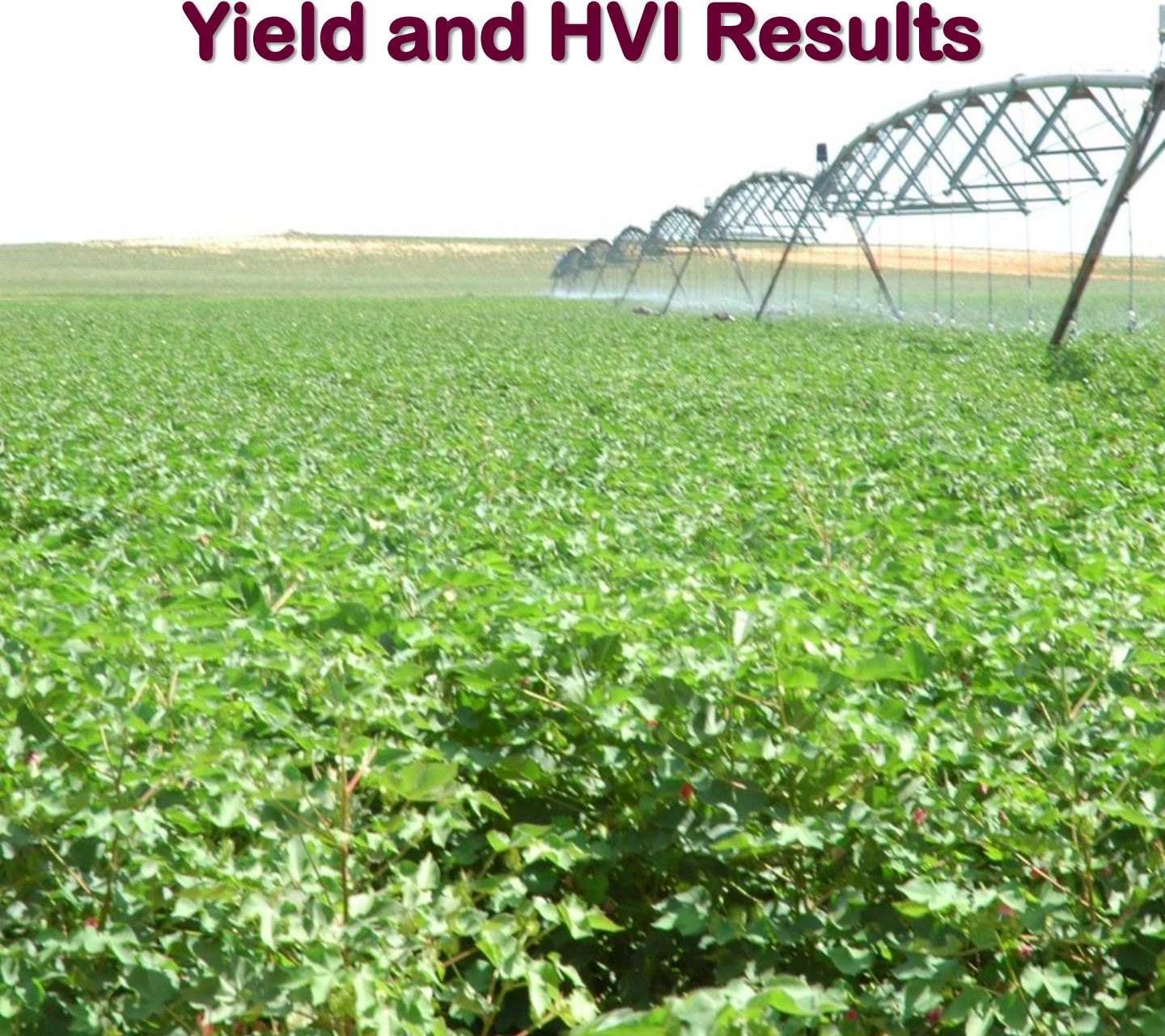


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2013 Large Plot Cotton Variety Trial Yield and HVI Results





2013 Large Plot Cotton Variety Trial Yield and HVI Results

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Lubbock, TX**

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2013 Large Plot Systems Variety Trials – Irrigated

Blanco, TX

Farwell, TX

Yield and HVI Results

Table 1. Harvest results from the Blanco Irrigated Systems Variety Trial, Mark and David Appling Farm, Blanco, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				\$/acre		
FiberMax 2484B2F	34.3	47.5	4344	1489	2062	0.5698	848.71	257.79	1106.51	130.31	62.89	913.31 a
Stoneville 4946GLB2	36.0	48.6	4132	1487	2007	0.5505	818.33	250.89	1069.22	123.97	64.18	881.06 ab
PhytoGen 367WRF	35.0	48.8	4007	1404	1957	0.5533	776.61	244.65	1021.26	120.22	59.31	841.73 ab
FiberMax 2011GT	36.0	46.2	3933	1417	1817	0.5505	780.29	227.09	1007.38	117.98	53.93	835.47 ab
NexGen 4111RF	33.4	48.4	3992	1334	1931	0.5642	752.76	241.35	994.11	119.75	44.34	830.02 ab
NexGen 1511B2RF	36.1	47.3	3907	1411	1847	0.5448	768.82	230.87	999.69	117.20	56.21	826.28 ab
Deltapine 1044B2RF	31.4	47.7	4310	1353	2055	0.5593	756.86	256.82	1013.68	129.30	58.27	826.11 ab
PhytoGen 499WRF	36.2	47.0	3829	1386	1801	0.5507	763.39	225.12	988.50	114.86	59.31	814.33 bc
All-Tex Epic RF	33.2	48.2	4006	1330	1931	0.5565	739.88	241.37	981.25	120.17	51.28	809.80 bc
NexGen 4012B2RF	34.6	49.3	3807	1318	1878	0.5550	731.58	234.76	966.33	114.22	54.56	797.55 bcd
FiberMax 9250GL	33.3	49.1	3895	1297	1912	0.5550	719.69	239.05	958.75	116.86	55.84	786.05 bcde
Croplan Genetics 3787B2RF	35.5	47.6	3483	1238	1657	0.5520	683.28	207.07	890.35	104.48	60.59	725.28 cde
All-Tex Nitro-44 B2RF	31.9	48.1	3879	1237	1865	0.5388	666.33	233.16	899.49	116.37	62.60	720.51 cde
FiberMax 1944GLB2	32.6	48.9	3724	1212	1821	0.5377	651.91	227.62	879.53	111.71	64.18	703.64 de
FiberMax 2989GLB2	33.0	48.1	3662	1208	1763	0.5398	652.16	220.39	872.55	109.86	64.18	698.51 e
Test average	34.2	48.1	3927	1341	1887	0.5519	740.71	235.87	976.57	117.82	58.11	800.64
CV, %	5.4	2.4	6.9	6.8	6.9	2.8	6.9	6.9	6.9	7.0	--	7.4
OSL	0.0288	0.1238	0.0504 [†]	0.0061	0.0440	0.4586	0.0011	0.0438	0.0057	0.0505 [†]	--	0.0025
LSD	3.1	NS	379	153	219	NS	85.29	27.39	112.64	11.38	--	98.96

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Blanco Irrigated Systems Variety Trial, Mark and David Appling Farm, Blanco, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
All-Tex Epic RF	3.8	35.6	80.8	31.4	10.0	2.0	76.6	8.8	3.0	1.0
All-Tex Nitro-44 B2RF	3.7	37.2	81.8	33.1	9.5	4.0	76.3	8.0	3.7	1.0
Croplan Genetics 3787B2RF	4.2	35.2	80.8	29.4	10.6	1.0	77.3	8.9	2.7	1.0
Deltapine 1044B2RF	3.9	35.3	81.2	30.7	11.1	3.0	77.6	8.5	3.0	1.0
FiberMax 1944GLB2	4.0	36.2	80.7	30.5	8.1	2.0	77.6	7.5	3.7	1.0
FiberMax 2011GT	4.3	35.0	81.2	30.1	8.5	2.7	76.4	8.0	3.3	1.0
FiberMax 2484B2F	3.8	37.5	81.2	31.5	8.1	1.7	79.1	7.8	2.7	1.0
FiberMax 2989GLB2	4.0	35.3	79.9	29.4	7.7	2.3	76.4	7.9	3.3	1.0
FiberMax 9250GL	4.6	35.0	81.1	29.8	8.5	2.3	77.6	8.4	2.7	1.0
NexGen 1511B2RF	4.3	34.5	80.8	30.3	10.8	2.7	77.9	8.8	2.7	1.0
NexGen 4012B2RF	4.4	35.2	81.5	30.1	8.4	1.7	76.0	8.7	3.0	1.0
NexGen 4111RF	4.2	35.2	82.1	31.4	9.5	1.7	76.3	8.9	3.0	1.0
PhytoGen 367WRF	4.3	34.7	80.4	29.7	10.2	1.7	77.2	9.2	2.3	1.0
PhytoGen 499WRF	4.3	34.8	81.6	30.9	11.1	2.7	75.0	8.6	3.3	1.0
Stoneville 4946GLB2	4.7	35.3	82.0	31.8	10.4	2.3	76.6	8.6	3.3	1.0
Test average	4.2	35.5	81.1	30.7	9.5	2.2	76.9	8.4	3.0	1.0
CV, %	8.6	2.3	0.9	3.2	5.0	36.7	2.0	3.8	--	--
OSL	0.0670 [†]	0.0019	0.0711 [†]	0.0039	<0.0001	0.0311	0.2997	<0.0001	--	--
LSD	0.5	1.4	1.1	1.7	0.8	1.4	NS	0.5	--	--

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

Table 1. Harvest results from the Farwell Irrigated Systems Variety Trial, Mark and Ryan Williams Farm, Farwell, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb			----- \$/acre -----			
NexGen 1511B2RF	36.7	46.8	3107	1142	1453	0.5440	621.08	181.59	802.68	93.22	80.30	629.16 a
Deltapine 0912B2RF	34.3	48.0	3346	1146	1607	0.5257	602.53	200.82	803.34	100.37	91.28	611.69 ab
FiberMax 9250GL	33.9	48.4	3118	1056	1510	0.5587	590.13	188.71	778.84	93.55	79.77	605.51 ab
Deltapine 1321B2RF	35.7	46.2	3099	1105	1431	0.5278	583.48	178.89	762.36	92.98	91.28	578.10 abc
PhytoGen 339WRF	32.3	48.1	3090	999	1485	0.5685	567.87	185.62	753.49	92.71	84.73	576.05 abc
All-Tex Nitro-44 B2RF	32.0	48.0	3211	1028	1540	0.5498	565.33	192.50	757.83	96.34	89.43	572.07 abc
NexGen 4111RF	34.4	47.2	3067	1056	1448	0.5093	538.00	180.96	718.96	92.02	63.34	563.60 bcd
FiberMax 1944GLB2	32.1	49.8	2988	958	1487	0.5635	539.96	185.85	725.81	89.63	91.69	544.49 cde
FiberMax 2011GT	34.8	46.4	2849	992	1322	0.5460	541.58	165.21	706.79	85.47	77.05	544.27 cde
FiberMax 9180B2F	30.7	50.5	2974	912	1502	0.5713	521.10	187.78	708.89	89.23	88.47	531.18 cde
PhytoGen 499WRF	32.9	46.8	2968	977	1388	0.5372	524.89	173.54	698.43	89.03	84.73	524.67 cde
PhytoGen 367WRF	31.4	43.1	3105	975	1337	0.5358	522.19	167.17	689.36	93.16	84.73	511.46 de
Croplan Genetics 3156B2RF	32.9	45.5	3025	995	1378	0.5007	498.02	172.20	670.23	90.76	83.95	495.52 ef
Deltapine 1219B2RF	32.0	45.3	2851	912	1293	0.4957	452.08	161.57	613.66	85.52	83.24	444.89 f
Test average	33.3	47.1	3057	1018	1441	0.5381	547.73	180.17	727.90	91.72	83.86	552.33
CV, %	6.5	4.8	5.3	5.4	5.3	4.5	5.4	5.3	5.4	5.3	--	6.2
OSL	0.0739 [†]	0.0567 [†]	0.0664 [†]	<0.0001	0.0010	0.0085	<0.0001	0.0010	0.0001	0.0663 [†]	--	<0.0001
LSD	3.0	3.2	225	92	128	0.0407	49.56	15.95	65.48	6.76	--	57.35

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Farwell Irrigated Systems Variety Trial, Mark and Ryan Williams Farm, Farwell, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
All-Tex Nitro-44 B2RF	3.4	36.8	80.7	31.7	9.5	2.7	76.2	9.3	2.7	1.3
Croplan Genetics 3156B2RF	3.3	33.7	78.1	27.9	8.9	2.7	75.8	9.0	3.0	1.0
Deltapine 0912B2RF	4.1	34.0	79.8	30.0	9.8	1.7	75.7	10.3	2.3	2.0
Deltapine 1219B2RF	3.2	34.7	78.8	29.4	9.0	1.7	76.3	10.3	2.0	2.0
Deltapine 1321B2RF	3.8	34.6	79.9	30.3	11.2	2.0	75.4	9.8	2.7	1.7
FiberMax 1944GLB2	3.7	36.2	79.4	30.2	8.2	2.0	76.8	9.6	2.3	1.3
FiberMax 2011GT	3.4	35.0	80.3	30.1	8.6	2.0	78.4	8.5	2.7	1.0
FiberMax 9180B2F	3.7	36.9	81.1	31.8	8.5	2.3	78.5	8.4	3.0	1.0
FiberMax 9250GL	3.5	35.7	79.0	30.1	7.8	2.0	78.5	8.5	2.3	1.0
NexGen 1511B2RF	3.9	35.2	81.0	31.0	10.8	2.0	75.9	10.0	2.3	1.7
NexGen 4111RF	3.4	34.3	79.3	30.4	9.7	2.0	75.7	10.7	1.7	2.0
PhytoGen 339WRF	3.6	36.8	81.3	31.0	10.0	2.0	76.4	9.0	2.7	1.0
PhytoGen 367WRF	3.6	35.3	80.9	29.7	10.2	2.0	75.9	9.9	2.0	2.0
PhytoGen 499WRF	3.7	34.9	78.7	29.9	10.5	2.3	75.8	9.9	2.7	1.7
Test average	3.6	35.3	79.9	30.2	9.5	2.1	76.5	9.5	2.5	1.5
CV, %	7.3	2.0	1.6	3.3	3.8	34.4	1.3	5.2	--	--
OSL	0.0174	<0.0001	0.0666 [†]	0.0110	<0.0001	0.8809	0.0022	<0.0001	--	--
LSD	0.4	1.2	1.8	1.7	0.6	NS	1.7	0.8	--	--

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.

2013 Large Plot Systems Variety Trials – Dryland

Blanco, TX

Yield and HVI Results

Table 1. Harvest results from the Blanco Dryland Systems Variety Trial, Mark and David Appling Farm, Blanco, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
PhytoGen 499WRF	31.4	46.9	1246	392	584	0.4667	182.77	73.00	255.77	37.39	59.31	159.07 a
PhytoGen 367WRF	31.0	46.9	1274	395	598	0.4553	179.95	74.70	254.64	38.22	59.31	157.11 a
Stoneville 4946GLB2	31.7	49.5	1206	382	597	0.4737	181.10	74.65	255.75	36.19	64.18	155.38 ab
NexGen 1511B2RF	30.9	46.1	1202	372	554	0.4733	175.88	69.30	245.18	36.06	56.21	152.91 abc
FiberMax 2989GLB2	29.8	46.5	1220	364	567	0.4882	177.45	70.86	248.32	36.61	64.18	147.53 abc
FiberMax 9170B2F	29.5	45.9	1239	365	568	0.4793	175.04	71.01	246.05	37.17	61.93	146.95 abc
FiberMax 2011GT	30.8	45.3	1192	367	540	0.4437	162.80	67.52	230.32	35.76	53.93	140.63 abcd
FiberMax 2484B2F	32.1	43.8	1083	348	475	0.4878	169.66	59.33	228.99	32.49	62.89	133.61 abcde
Deltapine 1044B2RF	29.8	47.8	1066	318	509	0.4803	152.79	63.69	216.48	31.98	58.27	126.22 bcde
Croplan Genetics 3787B2RF	31.5	45.5	1068	336	486	0.4697	157.95	60.70	218.65	32.05	60.59	126.01 bcde
FiberMax 1944GLB2	29.0	47.7	1112	323	531	0.4810	155.41	66.32	221.73	33.37	64.18	124.17 cde
NexGen 4111RF	28.3	43.0	1076	304	463	0.4383	133.35	57.83	191.18	32.27	44.34	114.58 de
NexGen 4012B2RF	28.6	49.4	1010	289	499	0.4393	126.88	62.34	189.22	30.29	54.56	104.36 e
Test average	30.3	46.5	1153	350	536	0.4674	163.93	67.02	230.94	34.60	58.76	137.58
CV, %	5.0	3.2	11.2	11.0	11.3	4.7	11.0	11.3	11.1	11.2	--	15.8
OSL	0.0730 [†]	0.0005	0.2557	0.0397	0.1112	0.0855 [†]	0.0105	0.1111	0.0331	0.2555	--	0.0804 [†]
LSD	2.1	2.5	NS	65	NS	0.0310	30.48	NS	43.20	NS	--	30.41

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Blanco Dryland Systems Variety Trial, Mark and David Appling Farm, Blanco, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	3.5	31.6	76.8	26.4	9.8	1.0	75.7	10.2	2.0	2.0
Deltapine 1044B2RF	3.3	32.7	77.1	28.6	10.1	2.3	74.8	9.3	3.3	1.7
FiberMax 1944GLB2	3.3	33.0	75.8	25.5	7.8	1.0	77.9	9.1	2.0	1.0
FiberMax 2011GT	2.9	32.9	76.9	27.0	7.9	3.0	76.9	8.9	3.0	1.0
FiberMax 2484B2F	3.0	34.1	76.4	28.0	7.9	2.7	77.7	8.7	2.7	1.0
FiberMax 2989GLB2	3.2	33.3	77.8	28.1	7.6	2.0	75.7	9.2	3.3	1.3
FiberMax 9170B2F	3.0	33.7	77.1	27.8	7.8	2.0	77.4	9.2	2.3	1.0
NexGen 1511B2RF	3.3	32.3	77.9	28.0	10.2	2.0	74.1	9.8	3.0	2.0
NexGen 4012B2RF	3.2	31.4	77.6	26.2	7.9	2.0	75.1	9.8	2.7	2.0
NexGen 4111RF	3.3	30.9	77.6	26.9	9.6	2.0	72.3	10.2	3.0	2.0
PhytoGen 367WRF	3.1	32.9	77.5	27.7	9.5	1.3	73.1	10.3	3.0	2.0
PhytoGen 499WRF	3.3	32.4	78.6	28.6	10.2	3.0	73.3	9.7	3.0	2.0
Stoneville 4946GLB2	3.0	33.3	78.8	29.8	9.4	2.0	73.5	9.3	3.3	1.7
Test average	3.2	32.6	77.4	27.6	8.9	2.0	75.2	9.5	2.8	1.6
CV, %	3.8	2.5	1.3	5.4	4.5	32.8	1.3	2.1	--	--
OSL	0.0002	0.0022	0.0556 [†]	0.1130	<0.0001	0.0144	<0.0001	<0.0001	--	--
LSD	0.2	1.4	1.4	NS	0.7	1.1	1.6	0.3	--	--

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



2013 Large Plot “RACE” Variety Trials Irrigated

**Crosby County – Ralls
Dawson County – Lamesa
Hale County – Halfway
Hall County – Memphis
Hockley County – Ropesville
Lubbock County – Acuff
Picked - Stripped
Lynn County – O’Donnell
Swisher County – Kress
Terry County - Brownfield**

Yield and HVI Results

Table 1. Harvest results from the Crosby County Sub-surface Drip Irrigated RACE Variety Trial, David Crump Farm, Ralls, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
FiberMax 2011GT	32.5	46.0	4292	1397	1973	0.5378	751.22	246.56	997.78	128.75	62.92	806.11 a
NexGen 1511B2RF	33.0	45.2	3678	1215	1663	0.5502	668.64	207.86	876.50	110.35	65.57	700.58 ab
PhytoGen 367WRF	30.2	47.1	3538	1069	1666	0.5463	584.02	208.30	792.32	106.13	69.20	616.99 bc
Croplan Genetics 3787B2RF	31.0	44.6	3626	1122	1618	0.5222	586.02	202.28	788.30	108.78	70.69	608.83 bc
FiberMax 2484B2F	31.4	46.3	3499	1099	1619	0.5183	569.86	202.34	772.19	104.96	73.37	593.87 bc
PhytoGen 499WRF	30.2	44.4	3453	1042	1533	0.5320	554.50	191.67	746.17	103.58	69.20	573.40 c
NexGen 4111RF	28.6	47.4	3451	987	1635	0.5300	523.30	204.35	727.65	103.54	51.73	572.39 c
Stoneville 4946GLB2	28.4	45.9	3554	1010	1632	0.5333	538.74	203.97	742.71	106.63	74.88	561.20 c
NexGen 4012B2RF	27.1	47.5	3724	1008	1770	0.5092	513.47	221.30	734.77	111.71	63.66	559.40 c
Deltapine 1044B2RF	29.4	46.7	3418	1005	1596	0.5155	517.89	199.53	717.42	102.53	67.98	546.90 c
Test average	30.2	46.1	3623	1096	1671	0.5295	580.76	208.82	789.58	108.70	66.92	613.97
CV, %	5.7	2.5	9.5	9.6	9.5	4.7	9.6	9.5	9.5	9.5	--	10.6
OSL	0.0113	0.0295	0.1706	0.0038	0.1479	0.5795	0.0010	0.1476	0.0063	0.1707	--	0.0029
LSD	3.0	1.9	NS	180	NS	NS	95.25	NS	129.29	NS	--	111.65

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Crosby County Sub-surface Drip Irrigated RACE Variety Trial, David Crump Farm, Ralls, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf [‡]	Rd	+b	Color grade [‡]	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
FiberMax 2011GT	3.2	35.2	80.8	31.6	8.8	3.0	78.2	7.6	2.0	1.0
NexGen 1511B2RF	3.6	34.8	80.9	32.1	10.6	3.0	76.0	8.3	2.0	1.0
PhytoGen 367WRF	3.4	35.3	81.7	30.9	9.7	3.0	76.0	8.8	2.0	1.0
Croplan Genetics 3787B2RF	3.0	35.1	81.3	30.0	10.6	3.0	76.0	9.0	2.0	1.0
FiberMax 2484B2F	2.9	36.4	81.2	30.2	8.2	3.0	80.4	7.5	2.0	1.0
PhytoGen 499WRF	3.4	34.6	81.8	31.3	10.6	3.0	74.8	8.7	2.0	1.0
NexGen 4111RF	3.2	35.2	81.8	31.7	9.9	3.0	75.9	8.6	2.0	1.0
Stoneville 4946GLB2	3.3	35.2	81.8	31.9	10.3	3.0	77.5	8.6	2.0	1.0
NexGen 4012B2RF	2.9	35.9	81.6	31.6	8.3	3.0	76.3	8.7	2.0	1.0
Deltapine 1044B2RF	3.0	35.4	80.4	31.3	10.7	3.0	76.1	8.7	2.0	1.0
Test average	3.2	35.3	81.3	31.3	9.8	3.0	76.7	8.5	2.0	1.0
CV, %	11.4	1.5	1.0	2.5	4.6	--	1.8	3.9	--	--
OSL	0.3474	0.0292	0.3978	0.0641†	<0.0001	--	0.0072	0.0002	--	--
LSD	NS	0.9	NS	1.1	0.8	--	2.4	0.6	--	--

CV - coefficient of variation.

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

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

‡ - due to uncharacteristic variability within varieties, leaf grades were set at 3 and color grades set at 21.

Table 1. Harvest results from the Dawson County Irrigated RACE Variety Trial, AGCARES - Texas A&M AgriLife Research Farm, Lamesa, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
Stoneville 4946GLB2	35.7	50.2	2297	820	1154	0.5040	413.50	144.22	557.72	68.91	74.88	413.93 a
NexGen 1511B2RF	39.5	51.6	1919	759	991	0.4973	377.27	123.91	501.18	57.58	65.57	378.02 ab
PhytoGen 367WRF	36.4	51.6	1884	685	971	0.4952	339.13	121.43	460.56	56.51	69.20	334.86 bc
FiberMax 2011GT	38.4	50.9	1673	642	852	0.5157	331.28	106.45	437.72	50.19	62.92	324.61 bcd
Deltapine 1044B2RF	32.0	49.4	1956	626	966	0.5062	317.08	120.77	437.85	58.69	67.98	311.18 bcd
PhytoGen 499WRF	37.2	50.8	1741	648	885	0.4930	319.30	110.59	429.90	52.24	69.20	308.46 bcd
FiberMax 2989GLB2	34.8	51.7	1654	575	856	0.5077	291.74	106.96	398.70	49.61	74.88	274.21 cd
NexGen 3348B2RF	35.4	52.4	1497	530	785	0.4880	258.61	98.10	356.71	44.90	57.27	254.55 d
Test average	36.2	51.1	1828	661	932	0.5009	330.99	116.55	447.54	54.83	67.74	324.98
CV, %	3.7	4.8	13.6	13.9	13.6	3.6	14.0	13.6	13.9	13.6	--	16.8
OSL	0.0004	0.8477	0.0430	0.0321	0.0748 [†]	0.6243	0.0292	0.0747 [†]	0.0413	0.0431	--	0.0535 [†]
LSD	2.4	NS	437	161	183	NS	80.89	22.85	108.69	13.10	--	78.51

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Dawson County Irrigated RACE Variety Trial, AGCARES - Texas A&M AgriLife Research Farm, Lamesa, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Stoneville 4946GLB2	4.3	32.6	78.6	29.9	8.6	2.7	73.5	9.4	3.7	1.3
NexGen 1511B2RF	4.3	33.4	79.0	30.3	9.6	2.3	72.4	9.2	3.7	2.0
PhytoGen 367WRF	4.2	32.7	78.7	29.5	9.5	2.0	73.5	9.3	3.3	2.0
FiberMax 2011GT	4.3	33.4	79.0	29.3	7.3	2.0	74.9	8.7	3.3	1.0
Deltapine 1044B2RF	4.1	33.2	79.1	29.7	9.5	2.3	73.7	9.0	3.7	1.3
PhytoGen 499WRF	4.0	32.9	79.8	30.8	8.8	2.3	72.7	9.2	3.7	1.7
FiberMax 2989GLB2	4.1	33.3	79.3	29.7	8.0	3.3	74.3	9.1	3.3	1.3
NexGen 3348B2RF	4.0	32.7	78.8	29.3	8.3	2.7	72.8	9.1	4.0	1.7
Test average	4.1	33.0	79.1	29.8	8.7	2.5	73.5	9.1	3.6	1.5
CV, %	6.9	2.7	1.5	3.4	12.1	23.5	1.6	3.2	--	--
OSL	0.8034	0.9065	0.9386	0.6082	0.1665	0.1894	0.2190	0.2193	--	--
LSD	NS	NS	NS	NS	NS	NS	NS	NS	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Hale County LEPA Irrigated RACE Variety Trial, Texas A&M AgriLife Research Farm, Halfway, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
PhytoGen 367WRF	34.7	51.1	3861	1339	1971	0.5085	680.79	246.37	927.15	115.82	64.96	746.37 a
Croplan Genetics 3787B2RF	37.5	49.1	3250	1220	1597	0.5515	672.86	199.59	872.45	97.50	66.36	708.59 ab
Deltapine 1212B2RF	32.9	48.9	3876	1275	1895	0.5000	637.50	236.87	874.37	116.28	67.78	690.32 ab
PhytoGen 339WRF	33.9	50.2	3796	1286	1906	0.5103	656.49	238.27	894.76	113.88	64.96	715.92 ab
Stoneville 4946GLB2	34.0	50.1	3726	1268	1867	0.5038	639.04	233.34	872.38	111.77	70.30	690.32 ab
NexGen 1511B2RF	34.0	45.6	3474	1180	1583	0.5355	631.90	197.91	829.81	104.23	61.56	664.03 bd
FiberMax 2011GT	34.6	48.2	3619	1252	1743	0.4613	577.39	217.83	795.23	108.57	59.07	627.59 de
FiberMax 2484B2F	35.2	49.5	3376	1189	1671	0.5113	608.22	208.92	817.14	101.29	68.87	646.97 de
NexGen 4111RF	33.4	49.7	3414	1140	1698	0.5105	582.18	212.31	794.49	102.43	48.56	643.50 de
FiberMax 2989GLB2	31.9	50.5	3412	1090	1724	0.5028	547.85	215.48	763.33	102.35	70.30	590.68 e
Test average	34.2	49.3	3580	1224	1766	0.5096	623.42	220.69	844.11	107.41	64.27	672.43
CV, %	6.4	4.1	4.7	4.6	4.6	4.7	4.7	4.6	4.6	4.7	--	5.1
OSL	0.2516	0.1337	0.0011	0.0013	<0.0001	0.0260	0.0003	<0.0001	0.0013	0.0011	--	0.0010
LSD	NS	NS	286	97	141	0.0408	49.74	17.58	67.19	8.57	--	58.66

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Hale County LEPA Irrigated RACE Variety Trial, Texas A&M AgriLife Research Farm, Halfway, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	3.8	35.2	80.6	28.1	10.3	2.3	78.3	8.4	3.0	1.0
Deltapine 1212B2RF	3.3	36.5	81.0	31.1	10.6	4.7	75.2	7.7	4.0	1.0
FiberMax 2011GT	2.9	35.4	80.3	30.2	8.5	4.3	76.9	7.1	4.0	1.0
FiberMax 2484B2F	2.9	37.9	80.0	30.8	8.2	2.7	80.1	6.8	3.0	1.0
FiberMax 2989GLB2	3.0	35.8	78.7	29.6	8.5	3.0	76.5	7.3	4.0	1.0
NexGen 1511B2RF	3.6	35.8	81.4	30.6	10.5	4.0	76.3	7.6	4.0	1.0
NexGen 4111RF	3.2	35.7	80.5	30.8	9.3	4.3	76.7	8.1	3.3	1.0
PhytoGen 339WRF	3.2	37.1	80.7	31.3	9.9	4.0	77.7	7.5	3.3	1.0
PhytoGen 367WRF	3.2	35.5	79.8	29.7	10.0	3.7	76.2	8.0	3.3	1.0
Stoneville 4946GLB2	3.1	35.6	80.4	31.5	9.3	4.0	77.9	7.6	3.3	1.0
Test average	3.2	36.1	80.3	30.4	9.5	3.7	77.2	7.6	3.5	1.0
CV, %	3.3	1.5	1.0	2.9	6.8	27.9	1.7	3.5	--	--
OSL	<0.0001	0.0001	0.0496	0.0069	0.0012	0.1620	0.0140	<0.0001	--	--
LSD	0.2	0.9	1.4	1.5	1.1	NS	2.2	0.5	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Hall County Irrigated RACE Variety Trial, Matt Montgomery Farm, Memphis, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
Croplan Genetics 3787B2RF	34.0	47.5	4050	1376	1924	0.5407	744.04	240.46	984.50	121.50	66.36	796.64 a
Stoneville 4946GLB2	38.2	49.3	3534	1350	1742	0.5558	750.10	217.70	967.80	106.02	70.30	791.48 a
FiberMax 1944GLB2	33.9	47.3	3654	1240	1728	0.5442	674.72	216.03	890.74	109.63	70.30	710.82 b
NexGen 1511B2RF	34.5	47.4	3611	1247	1711	0.5325	663.97	213.83	877.80	108.33	61.56	707.91 b
PhytoGen 367WRF	33.4	49.1	3527	1178	1731	0.5418	638.34	216.42	854.76	105.80	64.96	684.00 b
Deltapine 1219B2RF	34.9	47.6	3442	1203	1638	0.5347	643.02	204.77	847.80	103.26	63.82	680.71 b
PhytoGen 339WRF	33.2	48.5	3447	1144	1670	0.5565	636.85	208.81	845.66	103.42	64.96	677.28 b
FiberMax 2484B2F	33.1	45.4	3527	1168	1602	0.5523	645.17	200.25	845.42	105.80	68.87	670.74 b
Croplan Genetics 3156B2RF	33.4	45.2	3364	1122	1521	0.5162	579.03	190.08	769.11	100.91	64.36	603.84 c
NexGen 2051B2RF	30.1	50.8	3328	1003	1689	0.5228	524.46	211.14	735.61	99.85	53.76	582.00 c
Test average	33.9	47.8	3548	1203	1696	0.5398	649.97	211.95	861.92	106.45	64.92	690.54
CV, %	6.0	3.6	4.6	4.6	4.6	3.7	4.6	4.6	4.6	4.6	--	5.0
OSL	0.0280	0.0265	0.0029	<0.0001	0.0011	0.2834	<0.0001	0.0011	<0.0001	0.0029	--	<0.0001
LSD	3.5	3.0	282	96	134	NS	51.47	16.77	68.22	8.45	--	59.78

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Hall County Irrigated RACE Variety Trial, Matt Montgomery Farm, Memphis, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3156B2RF	3.6	33.9	78.6	27.2	7.7	3.0	76.5	7.7	4.0	1.0
Croplan Genetics 3787B2RF	4.1	34.2	80.7	30.4	8.9	2.7	76.1	8.4	3.3	1.0
Deltapine 1219B2RF	4.1	34.0	77.7	29.5	7.6	1.7	78.5	8.3	2.7	1.0
FiberMax 1944GLB2	4.5	34.7	79.7	28.8	7.5	2.3	77.7	8.1	3.0	1.0
FiberMax 2484B2F	3.8	36.4	78.9	29.1	7.0	2.7	78.2	7.3	3.3	1.0
NexGen 1511B2RF	4.2	34.8	79.3	29.3	8.9	2.7	76.0	8.2	3.3	1.0
NexGen 2051B2RF	4.0	34.7	78.8	27.4	7.8	3.7	75.8	7.8	4.0	1.0
PhytoGen 339WRF	4.0	35.5	80.1	29.2	9.1	1.7	76.9	7.8	3.3	1.0
PhytoGen 367WRF	4.0	34.3	79.5	28.7	8.9	1.7	76.4	8.3	3.0	1.0
Stoneville 4946GLB2	3.9	34.9	79.9	27.5	9.5	2.0	77.5	8.5	2.7	1.0
Test average	4.0	34.7	79.3	28.7	8.3	2.4	77.0	8.0	3.3	1.0
CV, %	3.7	3.4	1.1	4.9	8.2	37.7	2.0	5.4	--	--
OSL	0.0002	0.3639	0.0229	0.1809	0.0021	0.1860	0.3766	0.0705†	--	--
LSD	0.3	NS	1.5	NS	1.2	NS	NS	0.6	--	--

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

Table 1. Harvest results from the Hockley County Sub-surface Driip Irrigated RACE Trial, Mike Henson Farm, Ropesville, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				\$/acre		
NexGen 1511B2RF	38.9	47.7	5513	2142	2628	0.5645	1209.11	328.55	1537.66	165.38	69.59	1302.69 a
FiberMax 2011GT	35.3	46.1	5771	2036	2662	0.5707	1162.09	332.81	1494.89	173.14	66.77	1254.98 ab
Deltapine 1219B2RF	35.5	47.4	5670	2014	2687	0.5767	1161.30	335.86	1497.16	170.09	72.14	1254.92 ab
Stoneville 4946GLB2	33.7	46.9	5898	1986	2766	0.5662	1124.63	345.80	1470.42	176.95	79.47	1214.00 bc
FiberMax 2484B2F	34.7	45.7	5593	1940	2558	0.5717	1109.19	319.72	1428.91	167.80	77.86	1183.25 bc
Croplan Genetics 3787B2RF	35.8	44.8	5398	1934	2417	0.5725	1107.12	302.10	1409.22	161.95	75.02	1172.25 bc
PhytoGen 499WRF	34.6	44.2	5619	1942	2486	0.5662	1099.75	310.69	1410.45	168.56	73.43	1168.45 c
PhytoGen 367WRF	32.6	44.0	5487	1791	2415	0.5625	1007.38	301.87	1309.26	164.62	73.43	1071.20 d
NexGen 3348B2RF	33.7	48.5	5131	1728	2487	0.5613	970.15	310.93	1281.08	153.94	60.77	1066.36 d
Test average	35.0	46.1	5565	1946	2567	0.5680	1105.64	320.92	1426.56	166.94	72.05	1187.57
CV, %	5.5	5.1	3.9	3.8	4.0	1.5	3.8	4.0	3.9	3.9	--	4.1
OSL	0.0535 [†]	0.2792	0.0264	0.0002	0.0055	0.4198	<0.0001	0.0055	0.0004	0.0264	--	0.0002
LSD	2.8	NS	379	130	179	NS	73.49	22.31	95.75	11.35	--	84.41

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Hockley County Sub-surface Driip Irrigated RACE Trial, Mike Henson Farm, Ropesville, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	4.2	35.7	81.3	28.2	10.8	1.0	78.2	9.3	2.0	1.0
Deltapine 1219B2RF	3.8	36.5	80.0	30.4	9.6	1.3	78.5	8.9	2.0	1.0
FiberMax 2011GT	4.1	36.4	80.8	30.3	8.6	1.7	77.1	8.2	3.0	1.0
FiberMax 2484B2F	4.0	37.9	80.4	30.4	8.2	2.0	79.2	8.1	3.0	1.0
NexGen 1511B2RF	4.4	35.0	80.9	30.1	11.3	1.7	76.9	8.9	2.7	1.0
NexGen 3348B2RF	3.7	35.6	81.6	30.2	9.4	2.0	76.5	8.7	3.3	1.0
PhytoGen 367WRF	4.0	35.2	80.6	29.4	10.4	1.0	76.2	9.4	2.7	1.0
PhytoGen 499WRF	4.2	35.6	82.3	31.1	10.9	2.0	76.0	8.9	3.0	1.0
Stoneville 4946GLB2	4.3	35.3	81.0	30.7	10.7	1.7	76.6	9.3	2.7	1.0
Test average	4.1	35.9	81.0	30.1	10.0	1.6	77.2	8.9	2.7	1.0
CV, %	2.6	1.2	0.8	2.8	3.1	43.6	0.9	1.7	--	--
OSL	<0.0001	<0.0001	0.0155	0.0255	<0.0001	0.4726	0.0003	<0.0001	--	--
LSD	0.2	0.7	1.1	1.4	0.5	NS	1.2	0.3	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Lubbock County Picker Harvested Sub-surface Drip Irrigated RACE Variety Trial, Rhett Mimms Farm, Acuff, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
FiberMax 2011GT	38.3	56.0	3962	1518	2217	0.5645	857.03	277.15	1134.19	118.87	54.57	960.75 a
NexGen 1511B2RF	39.3	54.6	3620	1421	1975	0.5705	810.56	246.82	1057.38	108.59	56.88	891.92 b
Stoneville 4946GLB2	37.3	56.4	3801	1417	2144	0.5552	786.43	268.04	1054.46	114.04	64.95	875.48 bc
PhytoGen 367WRF	36.4	56.9	3697	1344	2104	0.5630	756.73	263.06	1019.80	110.92	60.02	848.86 bcd
Deltapine 1219B2RF	37.3	55.9	3636	1357	2031	0.5458	740.61	253.91	994.53	109.07	58.96	826.50 cde
NexGen 4012B2RF	35.9	58.5	3564	1280	2084	0.5487	702.22	260.56	962.78	106.92	55.21	800.65 de
FiberMax 2484B2F	37.4	56.7	3620	1352	2051	0.5248	709.56	256.40	965.96	108.59	63.63	793.74 e
Croplan Genetics 3787B2RF	38.6	56.5	3368	1299	1903	0.5448	707.94	237.85	945.79	101.05	61.31	783.42 e
Test average	37.5	56.4	3658	1373	2064	0.5522	758.89	257.97	1016.86	109.75	59.44	847.66
CV, %	1.4	1.8	3.1	3.2	3.1	2.3	3.2	3.1	3.1	3.2	--	3.4
OSL	<0.0001	0.0204	0.0012	0.0002	0.0011	0.0126	<0.0001	0.0011	<0.0001	0.0012	--	<0.0001
LSD	0.9	1.8	202	76	113	0.0218	41.89	14.14	56.00	6.06	--	49.94

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Lubbock County Picker Harvested Sub-surface Drip Irrigated RACE Variety Trial, Rhett Mimms Farm, Acuff, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	3.1	35.8	80.3	29.0	8.8	1.7	82.0	8.3	1.7	1.0
Deltapine 1219B2RF	3.2	36.3	79.1	30.7	7.2	1.7	81.5	8.4	2.0	1.0
FiberMax 2011GT	3.4	36.7	81.6	31.3	6.8	2.3	81.0	7.8	2.0	1.0
FiberMax 2484B2F	2.9	37.3	79.6	29.9	6.7	1.3	82.7	7.6	2.0	1.0
NexGen 1511B2RF	3.6	35.5	81.2	30.6	9.3	1.3	80.2	8.7	2.0	1.0
NexGen 4012B2RF	3.3	35.9	80.6	31.8	6.8	2.3	79.7	8.5	2.3	1.0
PhytoGen 367WRF	3.4	36.2	80.7	30.7	8.1	2.0	79.6	8.9	2.0	1.0
Stoneville 4946GLB2	3.4	36.2	81.4	31.6	8.4	2.7	79.4	8.5	2.3	1.0
Test average	3.3	36.2	80.6	30.7	7.7	1.9	80.8	8.3	2.0	1.0
CV, %	5.0	1.4	0.6	2.7	5.3	31.4	0.9	2.5	--	--
OSL	0.0057	0.0166	0.0002	0.0193	<0.0001	0.1225	0.0003	<0.0001	--	--
LSD	0.3	0.9	0.8	1.4	0.7	NS	1.2	0.4	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Lubbock County Stripper Harvested Sub-surface Drip Irrigated RACE Variety Trial, Rhett Mimms Farm, Acuff, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
FiberMax 2011GT	34.9	51.5	4731	1651	2437	0.5463	902.09	304.66	1206.75	141.94	54.57	1010.24 a
NexGen 1511B2RF	36.4	50.0	4271	1555	2137	0.5415	842.27	267.16	1109.43	128.14	56.88	924.42 b
Stoneville 4946GLB2	33.1	52.6	4438	1471	2334	0.5183	762.38	291.79	1054.17	133.13	64.95	856.09 c
NexGen 4012B2RF	32.1	53.4	4296	1380	2294	0.5440	750.92	286.70	1037.63	128.89	55.21	853.52 c
FiberMax 2484B2F	32.7	52.0	4406	1441	2291	0.5163	744.14	286.42	1030.56	132.19	63.63	834.74 c
PhytoGen 367WRF	32.8	52.2	4257	1394	2220	0.5290	737.50	277.53	1015.03	127.70	60.02	827.31 c
Deltapine 1219B2RF	33.4	51.0	4241	1418	2162	0.5140	728.99	270.24	999.23	127.22	58.96	813.05 c
Croplan Genetics 3787B2RF	34.1	51.1	3903	1331	1992	0.5098	678.69	249.06	927.75	117.08	61.31	749.35 d
Test average	33.7	51.7	4318	1455	2234	0.5274	768.38	279.19	1047.57	129.54	59.44	858.59
CV, %	2.0	1.6	3.2	3.2	3.3	4.1	3.3	3.2	3.3	3.2	--	3.5
OSL	<0.0001	0.0076	0.0005	<0.0001	0.0001	0.2825	<0.0001	0.0001	<0.0001	0.0005	--	<0.0001
LSD	1.2	1.5	245	82	127	NS	43.81	15.86	59.64	7.35	--	52.30

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Lubbock County Stripper Harvested Sub-surface Drip Irrigated RACE Variety Trial, Rhett Mimms Farm, Acuff, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	2.9	35.4	79.9	28.9	8.5	1.7	81.8	9.2	1.0	1.0
Deltapine 1219B2RF	2.8	36.5	78.9	31.3	7.2	1.3	81.0	9.1	1.3	1.0
FiberMax 2011GT	3.2	36.4	81.4	31.9	6.9	2.3	79.7	8.3	2.3	1.0
FiberMax 2484B2F	2.8	37.9	80.3	31.2	6.4	2.0	82.6	7.9	1.7	1.0
NexGen 1511B2RF	3.2	35.5	80.9	31.1	8.8	2.3	78.9	8.9	2.0	1.0
NexGen 4012B2RF	3.2	36.5	80.3	31.7	6.2	2.0	80.1	9.2	1.3	1.0
PhytoGen 367WRF	3.0	35.9	80.5	30.5	7.9	2.3	78.9	9.1	2.0	1.0
Stoneville 4946GLB2	2.9	35.7	80.7	32.1	8.0	2.7	78.8	9.2	2.0	1.0
Test average	3.0	36.2	80.4	31.1	7.5	2.1	80.2	8.9	1.7	1.0
CV, %	8.9	1.2	0.6	2.0	5.1	34.9	1.3	2.6	--	--
OSL	0.2125	0.0001	0.0010	0.0004	<0.0001	0.4510	0.0032	<0.0001	--	--
LSD	NS	0.7	0.9	1.1	0.7	NS	1.8	0.4	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Lynn County Irrigated RACE Variety Trial, Randy Cook Farm, O'donnell, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb			----- \$/acre -----			
Deltapine 1219B2RF	31.4	47.7	4109	1289	1959	0.5258	678.06	244.83	922.89	123.26	54.39	745.24
FiberMax 2989GLB2	31.9	48.4	4005	1278	1937	0.5078	648.81	242.09	890.89	120.15	59.91	710.84
FiberMax 1944GLB2	31.3	50.7	3756	1176	1903	0.5310	624.36	237.93	862.30	112.67	59.91	689.72
PhytoGen 367WRF	30.5	46.1	3984	1214	1837	0.5133	623.44	229.64	853.07	119.52	55.36	678.19
PhytoGen 499WRF	30.7	45.5	4026	1238	1830	0.4830	597.78	228.80	826.58	120.77	55.36	650.45
Deltapine 1044B2RF	27.3	43.2	4599	1255	1986	0.4628	580.63	248.28	828.91	137.96	54.39	636.56
NexGen 1511B2RF	30.6	42.6	3870	1183	1649	0.5053	597.65	206.08	803.73	116.09	52.47	635.18
NexGen 3348B2RF	30.8	44.7	3547	1092	1587	0.5252	573.34	198.39	771.73	106.42	45.82	619.49
Stoneville 4946GLB2	29.7	46.0	3729	1106	1716	0.5037	557.13	214.51	771.63	111.87	59.91	599.86
Croplan Genetics 3787B2RF	29.6	44.1	3116	922	1373	0.5062	466.44	171.68	638.12	93.48	56.56	488.08
Test average	30.4	45.9	3874	1175	1778	0.5064	594.76	222.22	816.99	116.22	55.41	645.36
CV, %	6.2	7.4	15.9	16.0	16.2	4.5	16.1	16.2	16.1	15.9	--	17.5
OSL	0.2386	0.1855	0.3646	0.4395	0.2675	0.0485	0.4118	0.2674	0.4178	0.3645	--	0.3687
LSD	NS	NS	NS	NS	NS	0.0390	NS	NS	NS	NS	--	NS

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Lynn County Irrigated RACE Variety Trial, Randy Cook Farm, O'donnell, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3787B2RF	2.8	35.7	79.5	29.1	10.2	2.3	78.7	7.5	3.0	1.0
Deltapine 1044B2RF	2.8	35.4	79.7	30.2	10.8	4.0	76.2	7.3	4.0	1.0
Deltapine 1219B2RF	3.1	38.0	80.1	31.2	8.2	2.7	78.0	7.6	3.3	1.0
FiberMax 1944GLB2	3.2	37.5	80.5	31.5	7.7	2.7	80.3	6.6	3.3	1.0
FiberMax 2989GLB2	3.3	35.8	80.2	29.3	8.3	3.7	77.2	6.8	4.0	1.0
NexGen 1511B2RF	3.2	35.4	80.5	31.4	10.5	4.0	76.6	7.3	3.7	1.0
NexGen 3348B2RF	3.4	35.7	81.1	30.0	8.6	3.3	76.3	7.4	4.0	1.0
PhytoGen 367WRF	3.3	35.7	80.2	30.5	9.9	4.3	75.1	7.9	3.7	1.0
PhytoGen 499WRF	3.1	35.8	80.3	30.7	10.3	4.3	74.9	7.3	4.0	1.0
Stoneville 4946GLB2	3.0	36.3	81.1	32.1	10.0	3.7	75.7	7.6	4.0	1.0
Test average	3.1	36.1	80.3	30.6	9.5	3.5	76.9	7.3	3.7	1.0
CV, %	6.7	1.8	1.3	2.4	2.8	21.2	1.7	3.2	--	--
OSL	0.0366	0.0008	0.6626	0.0012	<0.0001	0.0279	0.0016	<0.0001	--	--
LSD	0.4	1.1	NS	1.2	0.5	1.3	2.2	0.4	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Swisher County Irrigated RACE Trial, Cody Groehlky Farm, Kress, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb			----- \$/acre -----			
NexGen 1511B2RF	33.9	45.6	5080	1722	2317	0.5633	970.16	289.58	1259.74	152.40	66.91	1040.42
Deltapine 1212B2RF	32.9	47.3	5030	1656	2379	0.5543	918.22	297.33	1215.55	150.90	73.67	990.98
FiberMax 2011GT	34.3	45.1	4636	1588	2090	0.5617	892.09	261.19	1153.28	139.07	64.20	950.01
PhytoGen 339WRF	31.1	46.9	4863	1511	2279	0.5787	874.19	284.83	1159.02	145.88	70.61	942.53
PhytoGen 367WRF	32.1	47.1	4763	1528	2244	0.5705	871.80	280.48	1152.28	142.88	70.61	938.79
NexGen 4111RF	29.9	46.7	4908	1469	2291	0.5757	845.47	286.34	1131.80	147.25	52.78	931.77
FiberMax 9250GL	29.8	47.9	4826	1440	2311	0.5427	781.56	288.83	1070.39	144.77	66.48	859.14
Croplan Genetics 3156B2RF	30.6	45.9	4787	1467	2195	0.5173	759.11	274.43	1033.54	143.62	69.96	819.96
Test average	31.8	46.5	4862	1548	2263	0.5580	864.07	282.87	1146.95	145.85	66.90	934.20
CV, %	6.1	1.6	9.8	9.6	9.8	2.6	9.8	9.8	9.8	9.8	--	10.5
OSL	0.0800 [†]	0.0047	0.9533	0.2982	0.8367	0.0029	0.1269	0.8372	0.3413	0.9533	--	0.2441
LSD	2.8	1.3	NS	NS	NS	0.0257	NS	NS	NS	NS	--	NS

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Swisher County Irrigated RACE Trial, Cody Groehlky Farm, Kress, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Croplan Genetics 3156B2RF	3.3	34.8	80.2	27.6	9.1	2.3	76.5	8.1	3.3	1.0
Deltapine 1212B2RF	4.2	37.0	82.3	31.1	11.4	2.0	76.5	9.3	2.3	1.7
FiberMax 2011GT	4.1	36.1	81.1	29.7	8.8	1.3	77.7	8.0	3.3	1.0
FiberMax 9250GL	3.4	37.2	80.0	29.5	7.6	1.3	78.1	7.8	3.3	1.0
NexGen 1511B2RF	4.2	35.2	81.0	29.4	11.3	2.3	76.8	9.2	2.7	1.0
NexGen 4111RF	3.8	36.1	82.1	30.5	10.1	1.3	77.2	9.1	2.3	1.0
PhytoGen 339WRF	3.8	37.8	82.2	30.9	9.8	1.3	79.4	8.0	2.3	1.0
PhytoGen 367WRF	3.7	36.2	81.1	29.4	10.4	1.3	76.7	9.2	3.0	1.0
Test average	3.8	36.3	81.3	29.8	9.8	1.7	77.4	8.6	2.8	1.1
CV, %	5.8	1.4	0.9	2.1	3.2	43.4	1.3	2.8	--	--
OSL	0.0014	<0.0001	0.0059	0.0002	<0.0001	0.3309	0.0405	<0.0001	--	--
LSD	0.4	0.9	1.2	1.1	0.6	NS	1.8	0.4	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant

Table 1. Harvest results from the Terry County Irrigated RACE Trial, Keith Harrison Farm, Brownfield, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
Stoneville 4946GLB2	33.9	50.5	2516	852	1270	0.5710	486.41	158.80	645.21	75.48	61.13	508.61 a
NexGen 1511B2RF	36.6	48.3	2301	843	1113	0.5592	471.31	139.07	610.38	69.04	53.53	487.80 a
PhytoGen 367WRF	34.9	50.7	2299	802	1166	0.5680	455.40	145.79	601.20	68.96	56.49	475.75 ab
PhytoGen 499WRF	35.6	48.8	2040	726	995	0.5495	399.16	124.40	523.56	61.21	56.49	405.86 bc
NexGen 3348B2RF	33.6	52.3	1872	628	978	0.5573	350.02	122.29	472.32	56.16	46.75	369.41 cd
Deltapine 1044B2RF	33.3	52.8	1855	617	979	0.5605	345.94	122.36	468.30	55.66	55.50	357.15 cde
FiberMax 2989GLB2 GS	33.3	51.8	1639	546	848	0.5577	304.61	106.02	410.63	49.16	61.13	300.35 de
FiberMax 2484B2F	34.3	49.0	1562	535	765	0.5683	304.14	95.67	399.82	46.85	59.89	293.07 e
FiberMax 2989GLB2	33.3	51.8	1610	535	834	0.5503	294.58	104.24	398.83	48.30	61.13	289.40 e
Test average	34.3	50.7	1966	676	994	0.5602	379.06	124.30	503.36	58.98	56.89	387.49
CV, %	5.1	2.3	9.4	9.4	9.5	1.9	9.5	9.5	9.5	9.4	--	10.9
OSL	0.2821	0.0016	<0.0001	<0.0001	<0.0001	0.2321	<0.0001	<0.0001	<0.0001	<0.0001	--	<0.0001
LSD	NS	2.0	321	110	163	NS	62.34	20.34	82.66	9.64	--	73.02

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Terry County Irrigated RACE Trial, Keith Harrison Farm, Brownfield, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Deltapine 1044B2RF	3.7	35.0	80.4	29.2	9.9	1.0	79.8	8.3	2.0	1.0
FiberMax 2484B2F	3.6	36.3	80.1	29.4	7.6	1.3	82.4	7.4	2.3	1.0
FiberMax 2989GLB2	4.1	34.5	79.9	27.5	7.8	1.3	79.5	7.8	3.0	1.0
FiberMax 2989GLB2 GS	3.9	34.7	79.9	28.7	7.8	1.3	78.6	7.7	3.0	1.0
NexGen 1511B2RF	4.4	34.9	82.0	30.9	10.1	1.3	77.3	8.2	3.0	1.0
NexGen 3348B2RF	3.6	35.4	81.6	30.9	8.8	1.7	76.9	7.9	3.3	1.0
PhytoGen 367WRF	3.9	35.1	80.6	29.1	9.7	1.3	78.2	8.8	2.3	1.0
PhytoGen 499WRF	4.1	34.5	81.7	30.4	10.4	1.3	78.3	8.7	2.3	1.0
Stoneville 4946GLB2	3.9	36.2	82.1	31.6	9.5	2.0	78.4	8.3	3.0	1.0
Test average	3.9	35.2	80.9	29.7	9.1	1.4	78.8	8.1	2.7	1.0
CV, %	2.9	1.6	0.7	3.0	3.4	52.1	1.1	3.5	--	--
OSL	<0.0001	0.0079	0.0002	0.0009	<0.0001	0.8854	<0.0001	0.0003	--	--
LSD	0.2	1.0	1.0	1.5	0.5	NS	1.5	0.5	--	--

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 level, NS - not significant



2013 Large Plot “RACE” Variety Trials Dryland

Dawson County – Lamesa

Yield and HVI Results

Table 1. Harvest results from the Dawson County Dryland RACE Variety Trial, Texas A&M AgriLife Research - AGCARES Farm, Lamesa, TX, 2013.

Entry	Lint turnout	Seed turnout	Bur cotton yield	Lint yield	Seed yield	Lint loan value	Lint value	Seed value	Total value	Ginning cost	Seed/technology cost ¹	Net value
	----- % -----		----- lb/acre -----			\$/lb				----- \$/acre -----		
Stoneville 4946GLB2	37.7	49.1	925	349	454	0.4675	163.27	56.81	220.07	27.76	74.88	117.43 a
PhytoGen 367WRF	36.2	49.7	899	325	447	0.4713	153.31	55.83	209.13	26.97	69.20	112.97 a
Deltapine 1044B2RF	38.4	49.9	851	327	425	0.4648	151.92	53.09	205.01	25.53	67.98	111.50 a
PhytoGen 499WRF	38.5	47.5	859	331	408	0.4653	154.01	51.04	205.05	25.77	69.20	110.08 a
NexGen 5315B2RF	39.0	50.5	777	303	392	0.4708	142.60	49.06	191.66	23.32	65.57	102.76 a
FiberMax 1944GLB2	36.7	48.2	744	273	358	0.4708	128.57	44.78	173.35	22.31	74.88	76.16 b
NexGen 1511B2RF	36.6	45.5	622	228	283	0.4618	105.34	35.39	140.74	18.67	65.57	56.49 bc
FiberMax 2989GLB2	36.8	50.4	583	214	293	0.4715	101.06	36.69	137.75	17.48	74.88	45.38 c
Test average	37.5	48.8	783	294	383	0.4680	137.51	47.84	185.35	23.48	70.27	91.60
CV, %	3.4	1.5	9.1	9.2	9.0	2.4	9.2	9.0	9.2	9.1	--	16.2
OSL	0.1244	<0.0001	0.0002	0.0001	0.0001	0.9334	0.0001	0.0001	0.0001	0.0002	--	0.0001
LSD	NS	1.3	124	47	60	NS	22.16	7.56	29.71	3.73	--	25.99

For net value/acre, means within a column with the same letter are not significantly different at the 0.05 probability level.

CV - coefficient of variation.

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

LSD - least significant difference at the 0.05 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.

¹ - Seed/technology cost does not include any rebates that may be available from seed companies based on quantities purchased.

Table 2. HVI fiber property results from the Dawson County Dryland RACE Variety Trial, Texas A&M AgriLife Research - AGCARES Farm, Lamesa, TX, 2013.

Entry	Micronaire	Staple	Uniformity	Strength	Elongation	Leaf	Rd	+b	Color grade	
	units	32 ^{nds} inch	%	g/tex	%	grade	reflectance	yellowness	color 1	color 2
Deltapine 1044B2RF	4.8	30.3	77.7	27.4	9.2	2.0	73.2	9.9	3.0	2.0
FiberMax 1944GLB2	4.5	31.7	77.3	26.4	6.7	2.0	74.2	9.3	3.3	1.7
FiberMax 2989GLB2	4.7	31.8	77.7	26.9	6.8	1.3	72.1	9.7	3.7	2.0
NexGen 1511B2RF	4.4	29.8	76.1	27.9	9.4	2.7	72.6	10.0	3.0	2.0
NexGen 5315B2RF	4.5	31.7	78.5	27.0	8.9	1.0	71.8	10.1	3.3	2.0
PhytoGen 367WRF	4.4	31.4	78.8	27.6	8.8	1.7	72.5	10.0	3.0	2.0
PhytoGen 499WRF	4.5	30.8	78.0	28.9	10.1	2.3	71.4	10.1	3.7	2.0
Stoneville 4946GLB2	4.6	31.5	79.0	28.8	8.8	2.3	72.1	10.1	3.3	2.0
Test average	4.5	31.1	77.9	27.6	8.6	1.9	72.5	9.9	3.3	2.0
CV, %	3.1	1.7	1.3	2.9	4.9	20.9	1.7	1.6	--	--
OSL	0.0279	0.0021	0.0575 [†]	0.0171	<0.0001	0.0027	0.2630	0.0002	--	--
LSD	0.2	0.9	1.4	1.4	0.7	0.7	NS	0.3	--	--

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

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Cotton Incorporated

Texas State Support Program

Plains Cotton Growers, Inc.

Plains Cotton Improvement Program

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