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2021 Greer Co. Dryland RACE Trial Results

Planted: June 10th

Seeding Rate: 25,000 40" row spacing

Harvested: October 27th and 29th; stripper harvested

Variety	Lint Yield lbs./acre		Turnout %		Micronaire		Fiber Length inches		Uniformity %		Fiber Strength grams/tex		Loan Value ¹ cents/lb.	Return per Acre ² \$
NG 4098 B3XF	883	a	35.83	ab	3.89	bc	1.17	a	81.9	ab	33.5	a	54.38	a
ST 4993 B3XF	835	ab	37.47	a	4.33	a	1.07	d	83.2	a	33.9	a	52.78	a
DP 1948 B3XF	787	bc	35.50	ab	3.82	c	1.13	a-c	81.3	bc	32.4	ab	52.00	a
DP 2012 B3XF	783	bc	35.65	ab	3.78	cd	1.11	b-d	81.2	bc	30.2	cd	53.25	a
NG 5150 B3XF	767	bc	36.02	ab	4.01	a-c	1.11	b-d	81.4	bc	28.8	de	53.13	a
DP 2022 XF	727	cd	31.72	c	3.38	d	1.07	d	80.0	c	27.5	e	47.95	b
NG 4190 B3XF	725	cd	35.33	ab	3.79	cd	1.11	b-d	81.2	bc	28.6	de	53.17	a
ST 5600 B2XF	713	cd	33.86	bc	4.30	ab	1.10	b-d	81.4	bc	30.9	bc	53.22	a
NG 4050 XF	706	cd	36.68	a	3.88	c	1.08	cd	81.2	bc	31.2	bc	52.10	a
NG 4936 B3XF	671	d	33.82	bc	3.84	c	1.13	ab	82.2	ab	29.6	cd	53.93	a
Average	760		35.19		3.90		1.11		81.5		30.7		52.59	
p-value	0.0040		0.0037		0.0093		0.0121		0.0766		<0.0001		0.0222	
<i>pLSD</i>	86		2.34		0.42		0.05		1.6		1.7		3.05	
CV	9.71		5.70		8.68		3.40		1.36		7.26		4.40	

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre



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2021 Harmon Co. Irrigated RACE Trial Results

Planted: May 3rd

Seeding Rate: 40,000, 40" row spacing

Irrigation: Sub-surface drip

Harvested: October 8th, picker harvested

Variety	Lint Yield (lbs. per acre)		Turnout (%)		Mic		Length (inches)		Uniformity (%)	Strength (g/tex)		Loan Value ¹ (cents/pound)	Return ² (\$/acre)
ST 4990 B3XF	1,543	a	38.87	bc	3.11	ab	1.23	ab	82.3	29.6	a-c	47.13	659 a
ST 4993 B3XF	1,356	b	42.23	a	3.16	a	1.20	bc	83.3	31.6	a	47.60	577 b
NG 4936 B3XF	1,323	bc	38.15	c	2.91	a-c	1.24	ab	82.0	28.4	bc	45.58	535 b-d
DP 2020 B3XF	1,323	bc	38.04	c	2.87	bc	1.20	bc	80.2	28.7	a-c	43.70	510 b-e
NG 5150 B3XF	1,321	bc	40.20	b	3.14	a	1.20	bc	81.2	28.8	a-c	46.50	543 bc
DP 2038 B3XF	1,246	cd	42.87	a	2.77	c	1.17	c	80.4	26.8	c	42.75	465 c-e
DP 1948 B3XF	1,209	de	39.15	bc	2.81	c	1.23	ab	80.3	30.1	ab	44.60	471 c-e
NG 4098 B3XF	1,197	de	38.13	c	2.85	bc	1.25	a	80.4	31.6	a	44.15	459 de
NG 4190 B3XF	1,137	e	39.92	b	2.86	bc	1.21	a-c	82.2	28.2	bc	44.77	439 e
Average	1,295		39.73		2.94		1.21		81.4	29.3		45.2	518
p-value	<0.0001		<0.0001		0.0341		0.0254		0.1432	0.0482		0.2505	0.0004
<i>pLSD</i>	108		1.63		0.27		1.21		2.48	2.91		4.06	78
CV	11.67		4.73		6.60		2.69		2.06	7.02		5.53	16.67

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin.

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre.



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2021 Jackson Co. Dryland Strip Trial Results

Planted: June 9th

Seeding Rate: 20,000, 40" row spacing

Harvested: November 11th, stripper harvested

Variety	Lint Yield lbs./acre	Turnout %	Micronaire	Fiber Length inches	Uniformity %	Fiber Strength grams/tex	Loan Value ¹ cents/lb.	Return per Acre ² \$
PHY 480 W3FE	642	37.99	4.14	1.07	81.9	28.8	52.10	307
ST 4993 B3XF	636	38.71	4.48	1.07	81.0	30.7	52.20	298
FM 2398 GLTP	619	39.57	4.49	1.08	80.0	29.4	52.70	294
NG 4098 B3XF	606	36.98	4.18	1.12	80.9	32.6	54.05	293
PHY 443 W3FE	600	38.20	4.82	1.04	80.6	27.7	48.90	258
DP 1948 B3XF	595	37.49	4.32	1.15	82.5	31.9	54.20	288
PHY 400 W3FE	592	36.57	4.11	1.07	80.3	30.5	52.30	274
NG 4050 XF	582	36.70	4.55	1.04	81.0	28.2	48.90	260
NG 4190 B3XF	574	37.03	4.16	1.05	80.1	28.0	52.10	264
PHY 332 W3FE	554	34.20	4.42	1.07	80.0	30.3	52.20	253
NG 5150 B3XF	549	36.16	4.52	1.10	81.3	28.2	52.65	254
PHY 350 W3FE	542	33.72	4.36	1.06	80.3	27.9	52.00	247
ST 5600 B2XF	536	36.70	4.56	1.08	80.5	30.2	52.85	254
DP 2012 B3XF	534	36.52	4.24	1.10	81.7	26.5	52.75	246
DP 2022 XF	514	32.66	4.05	1.06	78.7	27.3	51.45	232
NG 4936 B3XF	513	35.61	4.44	1.07	81.5	27.3	52.00	232
Average	574	36.55	4.37	1.08	80.8	29.1	52.08	266

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin.

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre.



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2021 Jackson Co. Irrigated RACE Trial Results

Planted: May 21st

Seeding Rate: 42,000 38" row spacing

Irrigation: sub-surface drip located on 72" spacing in furrow

Harvested: October 18th, picker harvested

Variety	Lint Yield (lbs. per acre)		Turnout (%)		Mic		Length (inches)		Uniformity (%)		Strength (g/tex)		Loan Value ¹ (cents/pound)		Return ² (\$/acre)	
PHY 332 W3FE	1,618	a	40.75	e-g	3.81	c-f	1.21	b-d	82.8	ab	33.9	ab	54.40	a	806	a
PHY 350 W3FE	1,594	a	40.44	fg	3.89	c-e	1.20	cd	82.9	ab	31.6	cd	54.37	a	793	ab
PHY 443 W3FE	1,580	a	41.09	d-g	3.82	c-f	1.18	de	84.0	a	33.6	ab	54.47	a	786	ab
FM 2398 GLTP	1,576	a	43.00	a-c	4.58	a	1.21	cd	83.5	a	30.7	d-f	54.12	a	784	ab
PHY 400 W3FE	1,561	ab	42.37	b-e	3.82	c-f	1.16	e	82.3	a-c	31.6	cd	52.52	ab	747	a-c
ST 4993 B3XF	1,559	a-c	44.60	a	4.54	a	1.15	e	84.1	a	33.7	ab	54.27	a	775	ab
ST 4990 B3XF	1,513	a-d	40.47	fg	4.34	ab	1.23	bc	83.6	a	29.9	f	54.10	a	747	a-c
NG 5150 B3XF	1,469	b-e	42.10	c-f	4.19	a-c	1.20	cd	82.6	ab	31.4	c-f	54.37	a	724	bc
DP 1948 B3XF	1,456	b-e	41.04	d-g	3.30	g	1.27	a	82.3	a-c	32.3	bc	48.77	c	639	de
DP 2020 B3XF	1,455	c-e	41.36	c-g	4.00	b-d	1.22	b-d	83.9	a	31.5	c-e	54.37	a	716	b-d
PHY 480 W3FE	1,450	de	40.80	e-g	3.40	g	1.20	cd	84.1	a	31.4	c-f	50.42	bc	675	c-e
NG 4190 B3XF	1,432	de	42.59	b-d	3.50	e-g	1.21	cd	83.0	ab	30.0	ef	51.87	ab	668	c-e
DP 2038 B3XF	1,423	de	43.86	ab	3.62	d-g	1.09	f	80.6	c	31.1	c-f	52.93	ab	684	c-e
NG 4936 B3XF	1,403	e	39.81	g	3.92	cd	1.21	cd	83.0	ab	30.0	ef	54.07	a	686	c-e
NG 4098 B3XF	1,380	e	40.23	g	3.42	fg	1.25	ab	81.6	bc	34.5	a	50.45	bc	625	e
Average	1,498		41.63		3.88		1.20		82.95		31.80		53.03		724	
p-value	0.0003		<0.0001		<0.0001		<0.0001		0.0275		<0.0001		0.0057		0.0004	
pLSD	105		1.71		0.41		0.04		1.88		31.8		3.05		81	
CV	6.13		3.87		11.54		3.94		1.62		5.19		4.42		9.64	

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin.

²Return per acre calculated as (lint yield per acre X loan value per pound) – seed cost per acre.



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2021 Jackson Co. Irrigated RACE Trial Results – XtendFlex® Varieties

Planted: May 21st

Seeding Rate: 42,000 38" row spacing

Irrigation: sub-surface drip located on 72" spacing in furrow

Harvested: October 18th, picker harvested

Variety	Lint Yield (lbs. per acre)		Turnout (%)		Mic		Length (inches)		Uniformity (%)		Strength (g/tex)		Loan Value ¹ (cents/pound)		Return ² (\$/acre)	
ST 4993 B3XF	1559	a	44.60	a	4.54	a	1.15	d	84.1	a	33.7	ab	54.27	a	775	a
ST 4990 B3XF	1513	ab	40.47	ef	4.34	ab	1.23	bc	83.6	a	29.9	e	54.10	a	747	ab
NG 5150 B3XF	1469	bc	42.10	cd	4.19	ab	1.20	c	82.6	ab	31.4	cd	54.37	a	724	a-c
DP 1948 B3XF	1456	bc	41.04	d-f	3.30	e	1.27	a	82.3	a-c	32.3	bc	48.77	c	639	d
DP 2020 B3XF	1455	bc	41.36	c-e	4.00	bc	1.22	bc	83.9	a	31.5	c	54.37	a	716	a-c
NG 4190 B3XF	1432	cd	42.59	bc	3.50	de	1.21	c	83.0	ab	30.0	e	51.87	a-c	668	cd
DP 2038 B3XF	1423	cd	43.86	ab	3.62	c-e	1.09	e	80.6	c	31.1	c-e	52.93	ab	684	b-d
NG 4936 B3XF	1403	cd	39.81	f	3.92	b-d	1.21	c	83.0	ab	30.0	de	54.07	a	686	b-d
NG 4098 B3XF	1380	d	40.23	ef	3.42	e	1.25	ab	81.6	bc	34.5	a	50.45	bc	625	d
Average	1455		41.79		3.87		1.20		82.8		31.6		52.80		696	
p-value	0.0028		<0.0001		0.0001		<0.0001		0.0255		<0.0001		0.0134		0.0023	
pLSD	73		1.33		0.43		0.04		1.9		1.4		3.19		64	
CV	4.38		4.15		12.22		4.63		1.76		5.54		4.70		8.12	

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre



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2021 Tillman Co. Dryland RACE Trial Results

Planted: June 18th

Seeding Rate: 25,000 40" row spacing

Harvested: November 27th, picker harvested

Variety	Lint Yield (lbs. per acre)		Turnout (%)		Mic		Length (inches)		Uniformity (%)	Strength (g/tex)		Loan Value ¹ (cents/pound)	Return ² (\$/acre)
ST 5600 B2XF	1012	a	43.09	b	4.51	a	1.12	de	82.0	30.6	cd	53.87	508 a
DP 2012 B3XF	974	ab	42.31	b	4.05	b	1.15	bc	83.2	30.3	d	54.12	483 ab
ST 4993 B3XF	946	a-c	45.03	a	4.46	a	1.10	e	82.5	33.8	a	53.48	463 a-c
NG 4190 B3XF	889	b-d	42.82	b	3.72	de	1.13	c-e	81.7	29.8	d	53.80	434 b-d
DP 1948 B3XF	882	b-d	42.65	b	3.89	b-d	1.18	ab	81.8	32.0	bc	54.30	437 b-d
NG 4050 XF	874	b-e	42.47	b	4.03	bc	1.14	cd	82.7	30.8	cd	54.18	443 b-d
NG 5150 B3XF	854	c-e	42.87	b	3.94	b-d	1.11	de	80.6	28.0	e	53.02	409 c-e
NG 4098 B3XF	839	de	41.78	b	3.79	c-e	1.18	a	80.6	32.9	ab	54.15	411 c-e
NG 4936 B3XF	815	de	40.16	c	4.02	bc	1.15	a-c	82.4	30.3	d	54.05	397 de
DP 2022 XF	776	e	37.74	d	3.65	e	1.14	cd	81.4	29.4	de	52.10	365 e
Average	886		42.09		4.01		1.14		81.9	30.8		53.71	435
p-value	0.0042		<0.0001		<0.0001		0.0005		0.2174	<0.0001		0.2446	0.0053
<i>pLSD</i>	104		1.50		0.24		0.03		NS	1.67		1.69	62
CV	10.33		4.88		7.52		2.63		1.60	6.02		1.96	12.24

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre



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2021 Tillman Co. Irrigated RACE Trial Results

Planted: May 26th

Seeding Rate: 40,000 40" row spacing

Irrigation: center pivot

Harvested: October 31st; picker harvested

Variety	Lint Yield (lbs. per acre)		Turnout (%)		Mic		Length (inches)		Uniformity (%)	Strength (g/tex)		Loan Value ¹ (cents/pound)		Return ² (\$/acre)
DP 1948 B3XF	1,103	a	43.68	c	3.93	b	1.20	a	82.4	31.2	b	54.30	a	531 a
NG 4190 B3XF	1,090	a	44.22	c	4.05	b	1.16	b-d	81.9	28.8	c	53.82	a	516 ab
NG 4098 B3XF	1,018	b	41.24	e	3.93	b	1.19	ab	81.8	34.1	a	54.18	a	483 bc
DP 2020 B3XF	1,008	b	41.84	de	4.19	ab	1.17	a-c	82.1	29.6	bc	53.98	a	472 cd
ST 4993 B3XF	1,001	b	45.51	b	4.61	a	1.10	e	83.1	34.4	a	53.80	a	471 cd
NG 5150 B3XF	968	bc	44.24	c	4.66	a	1.12	de	81.9	30.0	bc	53.80	a	450 c-e
DP 2038 B3XF	964	bc	47.17	a	4.35	ab	1.09	e	80.6	29.4	bc	52.77	b	442 de
ST 4990 B3XF	951	bc	42.43	d	4.27	ab	1.15	cd	81.7	29.1	c	53.78	a	443 de
NG 4936 B3XF	919	c	41.35	e	4.08	b	1.18	a-c	82.4	30.4	bc	54.10	a	428 e
Average	1,002		43.52		4.23		1.15		82.0	30.8		53.84		471
p-value	0.0004		<0.0001		0.0488		<0.0001		0.6114	<0.0001		0.0387		0.0002
<i>pLSD</i>	67		1.01		0.50		0.04		NS	1.9		0.80		37
CV	9.09		4.57		8.35		3.61		1.61	7.14		1.09		10.61

¹Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin

²Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre



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2021 Washita Co. Dryland RACE Trial Results

Planted: June 5th

Seeding Rate: 28,000 40" row spacing

Harvested: November 29th, stripper harvested

Variety	Lint Yield (lbs. per acre)		Turnout ¹ (%)		Mic		Length (inches)		Uniformity (%)		Strength (g/tex)		Loan Value ¹ (cents/pound)		Return ² (\$/acre)	
ST 4993 B3XF	1,106	a	43.55	a	4.73	ab	1.10	d	83.1	a	32.3	b	53.43	bc	543	a
DP 1948 B3XF	1,069	ab	41.57	cd	4.47	bc	1.19	ab	82.9	ab	32.2	b	54.23	a	532	ab
ST 5600 B2XF	1,057	a-c	42.82	ab	4.89	a	1.14	cd	83.4	a	32.3	b	54.13	a	531	ab
DP 2123 B3XF	1,041	a-c	37.94	f	4.50	bc	1.11	d	81.6	b-d	30.0	c-e	53.40	bc	518	ab
NG 4098 B3XF	1,036	a-c	39.77	e	4.12	d	1.20	a	82.8	ab	35.4	a	54.47	a	516	ab
NG 5150 B3XF	1,012	b-d	41.92	b-d	4.74	ab	1.11	d	81.2	cd	28.5	c-e	53.27	c	490	bc
DP 2022 XF	1,000	b-d	37.79	f	4.27	cd	1.10	d	80.2	d	28.2	e	52.90	c	482	bc
NG 4190 B3XF	998	b-e	42.35	a-c	4.46	bc	1.13	cd	82.6	a-c	28.4	de	53.42	bc	484	bc
NG 4050 XF	969	c-e	41.46	cd	4.38	cd	1.13	cd	82.2	a-c	30.7	bc	53.97	ab	489	bc
DP 2055 B3XF	925	de	41.07	d	4.50	bc	1.17	a-c	82.8	ab	30.4	b-d	54.02	ab	452	c
NG 4936 B3XF	907	e	39.30	e	4.36	cd	1.14	b-d	82.1	a-c	29.0	c-e	53.92	ab	441	c
Average	1,011		40.87		4.49		1.14		82.3		30.7		53.74		498	
p-value	<0.0061		<0.0001		0.001		0.0016		0.0061		<0.0001		0.0009		0.0076	
pLSD	92		1.21		0.29		0.05		1.5		2.2		0.63		51	
CV	10.18		4.77		5.76		3.76		1.49		7.91		1.06		11.45	

¹Commercial gin turnout values from this field in mid-high 30s. Source of high turnout values from research gin is unknown.

²Color and leaf grades set to base levels (41 and 4, respectively) due to lack of proper lint cleaner on gin

³Return per acre calculated as (lint yield per acre X loan value per pound) - seed cost per acre