



DEPARTMENT OF
PLANT AND SOIL SCIENCES



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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						
ST 4993 B3XF	835 ab	37.47 a						
DP 1948 B3XF	787 bc	35.50 ab						
DP 2012 B3XF	783 bc	35.65 ab						
NG 5150 B3XF	767 bc	36.02 ab						
DP 2022 XF	727 cd	31.72 c						
NG 4190 B3XF	725 cd	35.33 ab						
ST 5600 B2XF	713 cd	33.86 bc						
NG 4050 XF	706 cd	36.68 a						
NG 4936 B3XF	671 d	33.82 bc						
Average	760	35.19						
p-value	0.0040	0.0037						
pLSD	86	2.34						
CV	9.71	5.70						

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						
ST 4993 B3XF	1,356 b	42.23 a						
NG 4936 B3XF	1,323 bc	38.15 c						
DP 2020 B3XF	1,323 bc	38.04 c						
NG 5150 B3XF	1,321 bc	40.20 b						
DP 2038 B3XF	1,246 cd	42.87 a						
DP 1948 B3XF	1,209 de	39.15 bc						
NG 4098 B3XF	1,197 de	38.13 c						
NG 4190 B3XF	1,137 e	39.92 b						
Average	1,295	39.73						
p-value	<0.0001	<0.0001						
<i>pLSD</i>	108	1.63						
CV	11.67	4.73						

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.



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						
ST 4993 B3XF	636	38.71						
FM 2398 GLTP	619	39.57						
NG 4098 B3XF	606	36.98						
PHY 443 W3FE	600	38.20						
DP 1948 B3XF	595	37.49						
PHY 400 W3FE	592	36.57						
NG 4050 XF	582	36.70						
NG 4190 B3XF	574	37.03						
PHY 332 W3FE	554	34.20						
NG 5150 B3XF	549	36.16						
PHY 350 W3FE	542	33.72						
ST 5600 B2XF	536	36.70						
DP 2012 B3XF	534	36.52						
DP 2022 XF	514	32.66						
NG 4936 B3XF	513	35.61						
Average	574	36.55						

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						
PHY 350 W3FE	1,594 a	40.44 fg						
PHY 443 W3FE	1,580 a	41.09 d-g						
FM 2398 GLTP	1,576 a	43.00 a-c						
PHY 400 W3FE	1,561 ab	42.37 b-e						
ST 4993 B3XF	1,559 a-c	44.60 a						
ST 4990 B3XF	1,513 a-d	40.47 fg						
NG 5150 B3XF	1,469 b-e	42.10 c-f						
DP 1948 B3XF	1,456 b-e	41.04 d-g						
DP 2020 B3XF	1,455 c-e	41.36 c-g						
PHY 480 W3FE	1,450 de	40.80 e-g						
NG 4190 B3XF	1,432 de	42.59 b-d						
DP 2038 B3XF	1,423 de	43.86 ab						
NG 4936 B3XF	1,403 e	39.81 g						
NG 4098 B3XF	1,380 e	40.23 g						
Average	1,498	41.63						
p-value	0.0003	<0.0001						
<i>pLSD</i>	105	1.71						
CV	6.13	3.87						

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						
DP 2012 B3XF	974 ab	42.31 b						
ST 4993 B3XF	946 a-c	45.03 a						
NG 4190 B3XF	889 b-d	42.82 b						
DP 1948 B3XF	882 b-d	42.65 b						
NG 4050 XF	874 b-e	42.47 b						
NG 5150 B3XF	854 c-e	42.87 b						
NG 4098 B3XF	839 de	41.78 b						
NG 4936 B3XF	815 de	40.16 c						
DP 2022 XF	776 e	37.74 d						
Average	886	42.09						
p-value	0.0042	<0.0001						
<i>pLSD</i>	104	1.50						
CV	10.33	4.88						

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						
NG 4190 B3XF	1,090 a	44.22 c						
NG 4098 B3XF	1,018 b	41.24 e						
DP 2020 B3XF	1,008 b	41.84 de						
ST 4993 B3XF	1,001 b	45.51 b						
NG 5150 B3XF	968 bc	44.24 c						
DP 2038 B3XF	964 bc	47.17 a						
ST 4990 B3XF	951 bc	42.43 d						
NG 4936 B3XF	919 c	41.35 e						
Average	1,002	43.52						
p-value	0.0004	<0.0001						
<i>pLSD</i>	67	1.01						
CV	9.09	4.57						

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 (%)	Mic	Length (inches)	Uniformity (%)	Strength (g/tex)	Loan Value ¹ (cents/pound)	Return ² (\$/acre)
ST 4993 B3XF	1,106 a	43.55 a						
DP 1948 B3XF	1,069 ab	41.57 cd						
ST 5600 B2XF	1,057 a-c	42.82 ab						
DP 2123 B3XF	1,041 a-c	37.94 f						
NG 4098 B3XF	1,036 a-c	39.77 e						
NG 5150 B3XF	1,012 b-d	41.92 b-d						
DP 2022 XF	1,000 b-d	37.79 f						
NG 4190 B3XF	998 b-e	42.35 a-c						
NG 4050 XF	969 c-e	41.46 cd						
DP 2055 B3XF	925 de	41.07 d						
NG 4936 B3XF	907 e	39.30 e						
Average	1,011	40.87						
p-value	<0.0061	<0.0001						
<i>pLSD</i>	92	1.21						
CV	10.18	4.77						

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