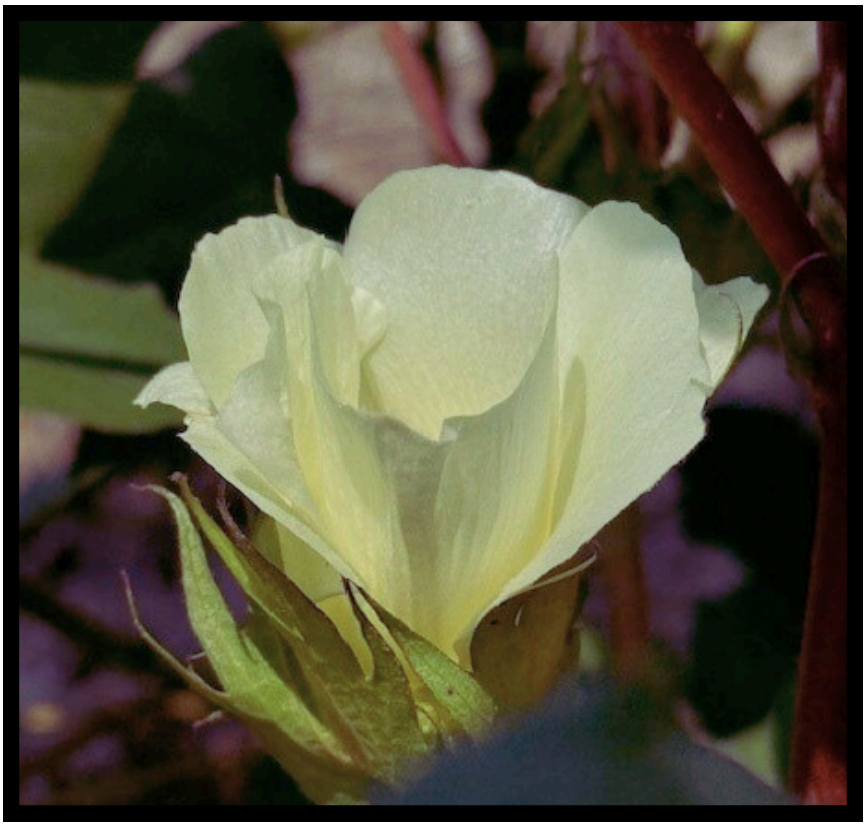

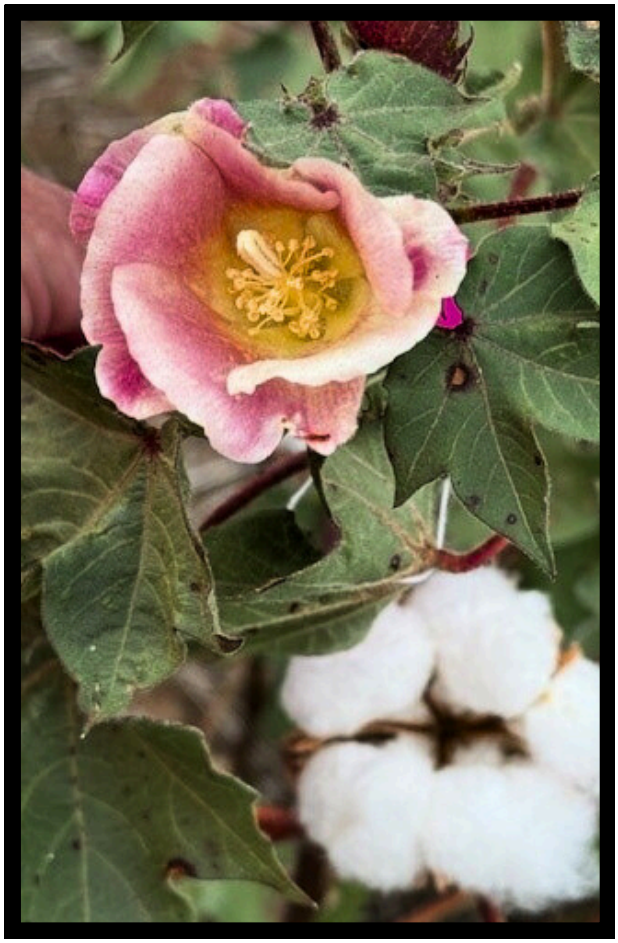

2024 Cotton Performance Trials

In the Texas High Plains

Texas A&M AgriLife | RESEARCH AND EXTENSION CENTER AT LUBBOCK

Texas A&M AgriLife Research
Cliff Lamb, Director

Technical Report 25-2
Texas A&M University- College Station, TX

Cotton Performance Trials in the Texas High Plains 2024[1]

C.M. Kelly, V. Morgan, T.A. Wheeler, R.B. Heinrich, K. Stair, and K. Legé[2]

Texas A&M AgriLife Research and Extension Center
Lubbock-Halfway-Pecos

Can be found online at:

https://u.tamu.edu/lg9FuQZ

1 Tests were conducted by Texas A&M AgriLife Research Cotton Improvement Program at Lubbock.

2 Asst. Professor-Cotton Breeder, Research Specialist, Professor-Plant Pathologist, Research Associate, Senior Research Associate Texas A&M AgriLife Research, Assistant Professor and Extension Cotton Specialist Texas A&M AgriLife Extension Lubbock

TABLE OF CONTENTS

INTRODUCTION

Cotton performance trials were planted in 2024 at the Texas A&M AgriLife Research and Extension Center in Lubbock (LREC), research station at Halfway, TX, and at the AG-CARES research farm in Lamesa, TX. Trials were conducted for response to bacterial blight at LREC, Verticillium wilt at the Halfway station, and root-knot nematode at the AG-CARES farm. Uniform Variety Trials including commercial or soon to be commercially available varieties were conducted in five environments: LREC irrigated, LREC water limited, AG-CARES base water, AG-CARES low water, and Halfway irrigated. New varieties and strains, including potential new commercial varieties or breeding lines, were tested at LREC under furrow-irrigated conditions. All trials were planted in a randomized complete block design with four replications, in 2-row plots, 25-35ft long on 40in centers. Soil types, planting dates, harvest dates, irrigation, and cultural practices for each trial are in Table 1.

The 2023-24 winter season continued with drought conditions that had been persistent for the previous two years. Very dry conditions through April and early May were relieved with welcome planting rains in mid-May, allowing the 2024 crop to be planted into some of the best soil moisture the area has seen in several years. Stand establishment was generally good, as was early growth through pinhead square stage. Some locations in the area continued to have timely rainfall until mid-July. Likewise, temperatures during the stand establishment period through mid-July were above average, yet not excessive. Conditions changed dramatically, however, in late July and throughout August, which was plagued with very hot temperatures and little to no rainfall across the region. As a result, square and boll shed was common in the middle and upper portions of the canopy, which drastically reduced yield potential. Heat unit accumulation in September, October, and even into November was significantly higher than average, which enabled some southernly locations to establish a top crop much later than normally expected. Micronaire, which is normally an issue the region deals with nearly every year, was higher than average, making low mic discounts rare in 2024. Because most of the crop was blooming and setting fiber length during the hot, dry portion of the 2024 season, fiber length overall was shorter than average. Yields, similarly, were below average and disappointing due to the heat and drought. Widespread and significant rainfall occurred in the first two weeks of November, but beyond a slight delay in harvest, minimal yield and quality loss was observed. 2024 FSA certified acres showed 3,174,628 planted, with 1,798,535 harvested, or 43% abandonment (compared to 61% abandonment in 2023) in the Southern High Plains region. For the Panhandle region, there were 556,901 acres planted, and 498,258 acres harvested, or 11% abandonment.

ACKNOWLEDGMENTS

Fiber properties were measured at the Fiber and Biopolymer Research Institute, Texas Tech University, with financial support from Texas A&M AgriLife Research Fiber Initiative. Plains Cotton Improvement Program and CSREES Hatch project TEX09297 supplement variety testing fees from participating companies. The Plains Cotton Improvement Committee facilitates this independent variety testing service and provides guidance for the variety testing strategy of the Texas A&M AgriLife Research cotton breeding project at Lubbock. Planting, seed and field preparation, plot maintenance, harvest, sample ginning, and data collection were assisted by student workers Caden Barron, Mitchell Bowan, Bridgette Capehart, Trevor Clark, Nathaniel Haden, Evan Muller, Rowley Sandoval, Tucker Thixton, and permanent staff of the breeding program contributed extra effort, especially manual weed control and sample harvesting so these trials could be conducted. Special acknowledgment to Te'Andra Burton, Reagan Heinrich, Valerie Morgan, Monica Sheehan, Koy Stair, and Leslie Wells. Bacterial blight, Verticillium wilt, and root-knot nematode ratings were conducted by the Texas A&M AgriLife Research plant pathology project at Lubbock under the supervision of Dr. Terry Wheeler.

GLOSSARY OF TABLE HEADINGS

Yield and Agronomic Properties - Determined from hand-snapped samples.

Yield - Pounds of lint harvested per acre.

Percent Lint-
Picked - Lint fraction of seed cotton.
Pulled - Lint fraction of burr cotton.

Boll Size - Weight, in grams, of seed cotton per boll.

Seed Index - Weight, in grams, of 100 fuzzy seed.

Seed Per Boll (SPB) - Average number of seed per boll (calculated).

Visual Properties

Maturity - Visual assessment of relative open bolls on a given date.

Storm Resistance (SR) - Visual rating from 1 (very loose boll type, considerable seed cotton loss) to 9 (very tight boll type, no seed cotton loss).

Height – Measured average plant height, in inches.

Disease

Def % - percent of the plant that have defoliation symptoms on a given day.

Wilt % - The percentage of plants with verticillium wilt symptoms on a given day.

Rk - Number of root-knot nematodes in 500 cc of soil.

LRK - Log transformation +1 of the Rk number, which is done to account for pressure in the field.

Average blight % - percent of plot with bacterial blight symptoms on a given day.

Statistical Analysis

Mean - The average value for the trait being observed.

c.v.% - Coefficient of variation. A relative measure of variation within a test, defined as the sample standard deviation expressed as a percentage of the sample mean.

LSD - Least significant difference. If the difference between two means exceeds this value, the two means are significantly different at the 0.05 probability level.

GLOSSARY OF TABLE HEADINGS

Fiber Properties - Measured by High Volume Instrument (HVI®).

Micronaire (Mic) - A relative measure of fiber linear density (mass per unit length) determined by air permeability.

Length – An instrument measurement of fiber length, expressed in hundredths of an inch, approximates the classer's staple length.

Uniformity - A measure of the uniformity of fiber length in a sample, measured as the ratio of mean length to upper half mean length, expressed as a percentage.

Strength - The force required to rupture (or break) a fiber sample, expressed in grams per tex.

Elongation - The amount that a fiber sample will stretch prior to breakage. This is a measure of the deformation of fiber at rupture expressed as a percentage change in length based on the original fiber length.

Leaf Index - The visual estimate of the amount of cotton plant leaf material that remains in the lint after the ginning process, ranging from 1(low) to 7(high).[1]

Color Grade (CG) - A function of the Rd and +b of the fiber sample. The color grade indicates the quadrant of the Nickerson-Hunter cotton colorimeter diagram in which Rd and +b values intersect.[2]

Breeding Material – Material from the LREC cotton breeding program was included in select trials: CA 4019, 19-1-305BB, and 19-4-517V.

COMPANY IDENTIFICATION

Company	Brand	Variety Designation	Experimental Designation
Americot	NexGen	NG	NGX
BASF	FiberMax	FM	BX
BASF	Stoneville	ST	BX
Brownfield Seed and Delinting	Brownfield Seed and Delinting	BSD	
Bayer Crop Science	Deltapine	DP	20R, 21R
Nutrien Ag Soluions	DynaGro	DG	
ExCeed Genetics(May)	ExCeed	ExCeed	XC
Gowan Cotton Seed	Gowan	GS	
May Seed Company	May	May	
PhytoGen	PhytoGen	PHY	PX
Seed Source Genetics	Seed Source Genetics	SSG	

[1] *Plot stripper used to harvest these tests is not equipped with a field cleaner. Experimental gin set-up may not always approximate Leaf Index values obtained at commercial gins.*

[2] *Fiber quality determinations are made on samples from two reps. If the color grade from these two samples are identical, only one color grade is reported.*

Table 1. Locations, soil types, planting dates, harvest dates, and production information for the small plot cotton performance trials in the Texas High Plains, 2024.

Soil Type	Date Planted	Date Harvested	Production Information
	Lubbock Uniform Irrigated		
Olton Clay Loam	May 13	December 9	1 fertilizer application 3 herbicide applications: 1PPI, 1 pre, 1 post furrow irrigation 3.66 acre inches pre-plant furrow irrigation 3.96 acre inches post plant 18.61 inches rainfall in season
	Lubbock New Varieties and Strains (NVST)		
Olton Clay Loam	May 13	December 10	1 harvest aid application for uniform
	Lubbock Late Planted		
Olton Clay	June 17	December 10	
	Lubbock Uniform Water Limited		
Acuff Loam	June 14	December 9	1 fertilizer application 2 herbicide applications: 1 PPI, 1 post 18.61 inches rainfall in season
	Halfway Uniform Irrigated		
Pullman Clay Loam	May 22	December 3	1 fertilizer application 4 herbicide applications: 1 PPI, 4 post pivot irrigation 11.15 acre inches in season 18.52 inches rainfall in season 1 harvest aid application
	Halfway Verticillium Wilt		
Pullman Clay Loam	May 20	December 4	
	Lamesa Uniform Base Water		
Amarillo Fine Sandy Loam	May 14	October 16	1 fertilizer application 2 herbicide applications: 1 pre, 1 post pivot base water, 11.1 acre inches in season pivot low water, 9.4 acre inches in season pivot high water, 13.2 acre inches in season 8.3 inches rainfall in season 1 harvest aid application
	Lamesa Uniform Low Water		
Amarillo Fine Sandy Loam	May 15	October 15	
	Lamesa Nematode High Water		
Amarillo Fine Sandy Loam	May 9	October 16	

Figure 2. In season weather data for the 2024 Texas A&M AgriLife Research OVT locations.

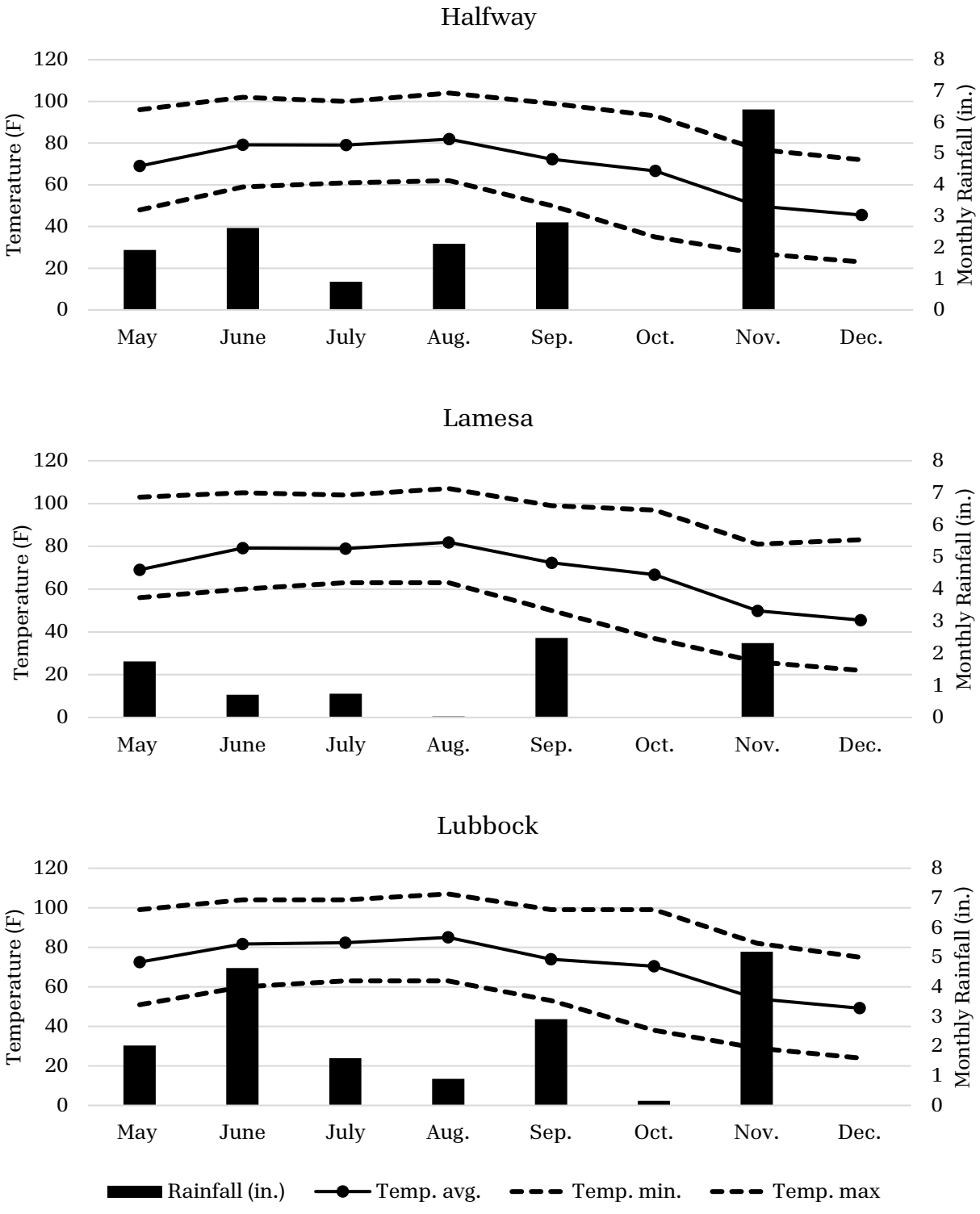

Table 3. Yield, agronomic, and fiber property data from the irrigated uniform cotton variety performance trial at Texas A&M AgriLife Lubbock, 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/16	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
PHY411W3FE	726	40.5	29.3	3.8	7.7	25.7	38	5	23	4.3	1.05	79.5	30.3	6.6	21-1	3
PHY136W3E1	709	42.1	30.8	3.9	8.1	24.7	56	6	20	4.4	1.09	79.9	31.9	7.0	21-1	2
PHY443W3FE	688	39.3	28.0	4.4	9.2	26.0	46	5	24	4.7	1.06	81.0	30.6	6.5	21-1	3
PHY205W3FE	663	38.3	28.1	4.3	8.5	30.5	64	6	19	4.4	1.02	80.2	27.8	5.9	11-2,21-1	2
ST 5931AXTP	618	38.9	28.5	5.6	9.7	31.9	25	5	25	4.2	1.13	81.6	31.4	6.5	21-1	2
PHY332W3FE	604	36.8	26.0	4.1	8.8	25.4	35	6	26	4.2	1.11	81.0	31.6	6.9	21-1,21-2	3
DP 2335 B3XF	570	39.6	29.0	4.0	8.2	26.5	26	5	22	4.1	1.10	78.6	29.2	5.8	11-1,11-2	2
PHY475W3FE	566	38.3	28.2	4.3	8.9	27.4	31	4	24	4.6	1.08	80.1	31.8	6.6	21-1	2
SSG UA 222	558	35.4	26.5	4.7	9.5	30.5	28	5	21	4.3	1.13	80.8	30.7	7.2	21-1,21-2	4
BX 2511AXTP	542	41.0	30.0	4.6	8.1	31.4	36	6	22	3.9	1.11	80.4	29.7	5.2	21-1,21-2	3
BX 2512AXTP	537	37.7	27.0	4.1	8.4	26.9	36	3	23	4.7	1.10	79.6	29.6	5.5	21-1	2
DP 2239 B3XF	533	40.4	29.5	4.2	8.0	27.9	36	5	22	4.3	1.12	80.3	28.9	6.3	1-1,11-2	2
PHY137W3E1	524	35.0	25.7	4.1	8.2	27.6	55	4	22	3.6	1.13	81.4	32.9	6.6	31-1	4
PHY400W3FE	514	38.1	27.9	3.8	8.4	24.7	49	6	19	4.1	1.07	78.5	29.5	6.2	11-2,21-1	2
BSD 9X	510	35.0	25.6	4.3	9.7	27.2	35	6	23	4.1	1.07	79.8	30.0	5.7	21-1	2
PHY415W3FE	508	37.1	27.0	3.9	8.9	25.1	39	5	23	4.4	1.09	80.9	30.5	6.6	21-1,21-2	3
PX1127D245-04W3FE	505	35.2	25.0	3.8	8.4	25.5	64	6	20	3.9	1.09	80.7	30.7	6.0	21-2	3
BSD 4X	502	34.7	25.4	4.3	10.1	25.8	53	6	19	3.7	1.03	78.1	26.1	6.0	21-1	2
PHY480W3FE	490	36.1	25.3	4.5	9.0	27.5	40	6	22	4.0	1.09	81.1	30.7	7.2	21-1	3
PHY360W3FE	488	36.5	25.9	3.2	8.0	22.7	68	3	20	3.8	1.05	78.8	26.5	6.0	21-1	3
FM 765AX	487	38.4	27.3	4.6	7.9	31.5	69	4	18	3.9	1.10	80.0	30.3	6.2	21-1,21-2	3
DP 2436NR B3TXF	485	41.4	29.1	3.3	7.2	23.4	41	3	22	3.9	1.11	79.0	31.3	7.6	21-1	3
FM 757AXTP	483	40.1	28.9	3.8	6.9	29.2	53	5	19	4.4	1.09	78.3	27.3	5.6	11-2,21-1	2
DP 2349NR B3XF	473	42.3	30.6	4.1	7.9	27.1	24	5	27	4.7	1.07	79.4	29.1	6.2	21-1	3
Ton Buster Magnum	469	34.4	25.3	4.1	9.3	26.5	60	5	21	3.9	1.03	77.8	26.9	5.8	21-1	3
PHY390W3FE	461	38.0	28.2	4.1	8.5	26.7	55	7	18	4.1	1.05	78.7	27.6	6.2	21-1,21-2	3
PHY250W3FE	426	36.1	26.4	4.1	8.6	27.2	53	5	20	4.0	1.05	79.6	27.7	6.1	21-1	2
ST 6000AXTP	408	41.8	30.3	4.1	7.9	26.0	20	4	25	4.4	1.10	80.3	32.3	6.4	11-2,21-1	3
FM 814AXTP	405	40.7	30.4	4.1	8.3	26.9	60	5	19	4.0	1.06	79.4	27.9	5.6	21-1	2
DP 2317 B3TXF	399	38.8	27.0	3.3	6.9	26.6	50	3	22	4.0	1.07	78.2	25.9	5.7	11-2,21-1	2
FM 868AXTP	385	38.3	28.2	4.5	9.7	26.8	43	6	21	3.9	1.06	79.8	29.4	6.4	21-1	3
FM 823AXTP	376	39.0	27.5	4.0	7.9	28.0	65	5	19	3.9	1.07	79.4	29.6	6.4	21-1	2
PHY210W3FE	373	36.6	26.2	3.8	8.9	25.0	60	6	18	4.0	1.04	80.0	28.3	5.9	11-2	2
BX 2556AXTP	366	35.0	25.6	4.2	8.4	27.8	45	4	23	3.9	1.10	79.2	30.8	5.9	21-1,21-2	3
SSG UA 248	358	35.3	26.4	4.1	8.8	27.3	55	4	21	4.8	1.11	79.0	28.6	6.6	21-1	2
Mean	527	38.0	27.6	4.1	8.5	27.0	46	5	21	4.1	1.08	79.7	29.5	6.2		2
c.v.%	18.9	2.0	3.1	8.4	4.5	8.4	24.9	18.6	10.8	5.9	1.7	0.9	3.4	2.6		20
LSD 0.05	117	1.3	1.4	0.6	0.6	3.8	13	1	3	0.4	0.03	1.2	1.7	0.3		1

Location is known to have reniform nematode pressure, levels not quantified.

Table 4. Yield, agronomic, and fiber property data from the base water uniform cotton variety performance trial at Texas A&M AgriLife Research, Halfway 2024.

		Agronomic properties					% Open			Fiber properies						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/30	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
PHY136W3E1	782	41.9	30.6	4.5	7.9	28.9	81	6	20	4.8	1.05	80.4	30.2	6.7	21-3	2
PHY475W3FE	752	41.3	30.0	4.4	8.5	28.2	85	5	22	5.1	1.04	80.9	30.5	6.4	21-1,21-3	2
DP 2335 B3XF	698	42.0	31.6	5.0	9.1	29.7	88	5	22	4.7	1.07	79.8	29.4	5.5	11-1	2
PHY360W3FE	697	40.7	29.5	4.1	7.7	28.0	88	3	22	5.2	1.03	80.1	26.8	5.7	21-1	2
DP 2239 B3XF	689	43.3	32.5	4.7	8.3	29.6	91	4	21	5.2	1.05	81.5	28.8	6.2	11-3,21-3	2
PHY210W3FE	676	41.1	29.3	4.0	8.8	24.6	88	6	19	4.7	1.04	79.5	28.8	6.2	21-3,22-1	3
FM 765AX	664	42.4	31.7	5.1	9.6	27.9	90	5	20	5.0	1.04	79.4	29.7	6.3	21-1,22-1	2
PHY137W3E1	660	42.4	30.8	4.5	8.3	27.9	86	5	20	4.7	1.06	80.7	29.7	6.2	21-1,22-1	3
PHY250W3FE	657	39.9	28.4	4.4	8.9	26.7	85	6	21	4.8	1.03	79.8	27.3	5.8	21-1	2
FM 814AXTP	656	41.6	31.5	5.6	9.1	31.5	85	5	17	5.2	1.02	80.2	27.5	5.5	21-1	2
FM 823AXTP	653	40.4	29.6	4.7	8.9	28.7	95	5	19	4.8	1.09	80.9	31.4	6.2	21-3,21-1	2
Ton Buster Magnum	643	38.5	29.2	4.7	9.8	27.2	96	5	21	4.9	1.00	78.8	26.6	5.9	11-2,21-3	3
PHY415W3FE	640	40.6	30.2	4.0	8.5	24.1	92	5	20	4.8	1.04	78.9	28.5	6.2	21-3,22-2	3
PHY400W3FE	637	41.7	29.4	4.0	8.3	25.3	83	6	18	4.9	1.03	79.8	29.0	6.2	21-1,21-3	3
PHY480W3FE	637	41.4	30.3	4.5	9.1	26.7	88	5	22	5.0	1.06	80.2	30.7	7.2	21-4,22-1	3
PHY332W3FE	633	40.9	30.1	4.9	8.5	31.0	74	6	23	4.9	1.08	82.6	30.8	6.4	21-3,22-1	2
PHY411W3FE	621	41.5	29.8	3.9	7.5	26.9	78	5	19	5.1	1.00	79.5	28.5	6.4	21-1	2
PHY443W3FE	620	40.9	29.3	4.7	8.9	28.4	85	5	23	5.0	1.01	80.0	29.8	6.2	22-1	3
FM 868AXTP	618	40.6	30.4	5.2	9.7	28.5	88	4	22	4.8	1.02	79.2	29.8	6.2	21-3,22-1	2
FM 757AXTP	613	40.9	30.0	4.6	8.4	29.5	93	4	21	4.8	1.07	80.2	29.5	6.0	21-3	2
BX 2512AXTP	604	38.4	28.6	5.1	8.9	31.5	88	4	21	5.6	1.08	81.0	30.4	5.2	21-3	2
ST 6000AXTP	601	44.0	32.6	4.8	8.3	28.6	85	5	22	5.1	1.06	81.2	31.8	6.3	11-2,211	2
PHY205W3FE	601	40.4	29.6	4.1	8.1	26.9	93	7	18	4.5	1.02	78.3	25.1	5.3	21-1,21-3	1
PX1127D245-04W3FE	590	39.0	27.9	3.7	7.9	26.4	93	5	19	4.6	1.04	79.8	28.6	5.5	21-1	3
BX 2511AXTP	582	41.1	31.1	5.0	8.7	30.5	87	6	20	4.6	1.07	80.2	29.6	5.0	11-2,21-1	2
PHY390W3FE	578	41.0	30.8	5.2	9.7	28.8	88	5	21	4.9	1.07	80.9	29.9	6.0	21-1	3
ST 5931AXTP	574	41.3	30.4	4.7	9.5	27.3	80	5	21	4.9	1.00	79.2	28.1	6.1	21-1,21-3	3
SSG UA 248	560	38.2	27.9	4.3	8.8	27.5	93	4	22	5.0	1.04	79.5	30.3	6.6	21-3	2
DP 2436NR B3TXF	559	41.2	29.2	4.1	8.0	25.3	75	3	21	4.9	1.10	80.3	31.7	7.7	11-3,21-1	2
DP 2349NR B3XF	558	42.6	31.3	4.6	8.1	29.3	85	4	22	5.5	1.04	80.0	28.6	6.1	11-2,21-1	2
BX 2556AXTP	551	40.7	30.3	4.6	9.1	28.7	83	4	23	4.9	1.05	80.2	29.6	5.7	21-1,21-2	3
BSD 9X	543	37.8	27.6	4.9	9.8	28.4	93	4	21	5.3	1.01	81.0	29.8	5.9	21-1,21-3	2
SSG UA 222	539	38.7	29.4	4.6	10.0	25.8	93	5	20	5.2	1.02	80.1	29.3	7.1	21-3,22-1	3
BSD 4X	537	38.8	28.7	5.3	9.9	31.3	95	5	20	4.6	0.96	78.6	24.6	5.8	21-3	2
DP 2317 B3TXF	497	41.5	29.0	3.7	7.5	27.3	86	3	25	4.7	1.05	80.0	26.5	5.4	11-1,11-2	2
Mean	620	40.8	29.9	4.6	8.7	28.1	87	5	21	4.9	1.04	80.1	29.0	6.1		2
c.v.%	14.0	2.9	3.9	9.1	4.6	6.7	8.6	23.3	9.0	4.0	2.6	1.5	5.9	5.6		23
LSD 0.05	102	20.0	2.0	0.7	0.7	3.2	9	1	2	0.3	0.05	2.0	2.9	0.6		1

Table 5. Yield, agronomic, and fiber property data from the base water uniform cotton variety performance trial at the AG-CARES farm, Lamesa 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-	Color	
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/18	SR	Height	Mic	Length	ormity	Strength	ation	Grade	Leaf
FM 765AX	956	38.8	28.9	4.6	8.5	30.6	86	5	32	3.9	1.10	80.3	29.5	5.6	11-1,11-2	3
FM 823AXTP	855	39.6	29.1	4.1	8.5	26.8	88	6	29	4.4	1.07	80.1	29.2	6.1	11-1,21-1	2
PHY332W3FE	850	40.1	30.2	4.3	8.3	28.6	79	6	34	4.5	1.09	80.4	29.4	6.2	11-4,12-2	2
PHY390W3FE	825	41.1	29.1	3.9	7.9	26.4	84	7	29	4.1	1.05	79.0	28.2	5.7	11-2	2
SSG UA 222	808	38.3	29.8	4.5	9.7	27.0	75	5	30	4.6	1.08	80.7	29.3	6.6	11-2,21-1	3
ST 6000AXTP	780	40.6	30.1	4.7	8.6	28.4	59	4	35	4.4	1.09	81.2	32.0	5.8	11-1,11-2	2
BX 2511AXTP	778	39.2	28.8	4.6	8.7	29.7	83	5	31	3.7	1.08	79.6	27.0	4.7	11-2	2
FM 868AXTP	777	39.8	29.2	4.9	10.1	27.2	81	6	34	4.4	1.06	80.7	30.6	5.8	11-2	2
DP 2335 B3XF	761	41.1	30.5	4.7	9.6	27.2	60	5	37	4.3	1.07	79.3	28.8	5.1	11-2	2
PHY415W3FE	754	40.0	28.9	4.0	8.7	24.7	70	6	34	4.5	1.08	80.9	31.1	6.1	21-1,21-3	3
PHY480W3FE	739	41.6	29.9	4.3	8.2	28.2	78	6	34	4.4	1.06	81.4	30.9	6.8	11-2,11-3	2
PHY250W3FE	737	39.2	27.5	3.8	8.6	25.3	89	7	33	4.2	1.04	78.6	27.0	5.7	11-2,21-1	3
DP 2239 B3XF	725	42.4	30.8	4.2	7.8	28.6	78	6	35	4.7	1.06	80.0	26.1	5.7	11-1	2
DP 2317 B3TXF	703	41.0	29.9	3.8	7.3	29.1	73	5	36	4.4	1.09	79.8	26.9	5.1	11-1	1
BX 2512AXTP	702	40.1	28.1	4.3	8.8	26.6	81	5	32	5.2	1.10	81.1	29.4	5.1	11-2	2
FM 814AXTP	694	42.3	30.1	4.2	8.8	25.3	89	5	31	4.4	1.02	79.7	25.7	5.4	11-1,11-2	2
PHY411W3FE	688	42.3	30.5	3.7	8.0	24.0	78	6	34	4.9	0.99	80.1	27.2	6.3	11-1	2
PX1127D245-04W3FE	681	35.5	25.3	3.5	7.9	25.2	93	7	29	4.0	1.09	80.8	29.4	5.4	11-2,21-1	3
BSD 4X	678	38.0	27.8	4.8	10.1	28.2	73	6	33	4.1	1.04	79.0	26.9	5.6	11-1	2
ST 5931AXTP	672	40.7	28.8	4.9	9.6	27.0	54	5	36	4.4	1.09	80.9	30.2	6.1	11-2,21-1	2
PHY137W3E1	664	38.9	27.4	3.8	8.1	26.2	79	5	32	3.9	1.08	80.8	31.9	6.5	21-1,21-3	3
FM 757AXTP	663	39.0	29.1	4.2	8.2	28.7	84	5	31	4.3	1.11	78.2	27.3	5.0	11-2,12-1	2
PHY360W3FE	662	39.0	28.3	3.8	7.7	27.8	86	6	32	4.3	1.06	78.9	24.9	5.4	11-2	3
PHY210W3FE	660	39.4	26.6	3.8	8.3	25.2	94	7	27	4.2	1.02	78.6	26.7	5.4	11-1,11-2	2
DP 2349NR B3XF	657	42.9	30.9	4.1	8.1	26.0	61	6	37	5.0	1.02	80.0	27.6	5.6	11-1,11-2	1
PHY475W3FE	657	37.2	27.2	4.0	8.2	28.1	76	6	35	4.5	1.03	79.0	27.9	6.1	11-3	2
BSD 9X	652	37.0	27.2	4.6	9.5	28.8	74	5	34	4.6	1.03	80.1	28.4	5.7	11-1	2
PHY205W3FE	651	37.4	25.3	3.5	9.0	22.2	93	7	28	3.9	1.02	79.8	28.8	5.4	11-2,11-3	3
DP 2436NR B3TXF	648	40.9	28.0	3.7	8.4	23.1	63	4	32	4.4	1.11	81.2	32.5	6.9	11-2,21-1	2
PHY443W3FE	648	40.4	27.7	4.2	8.9	25.8	81	6	34	4.5	1.03	79.4	28.3	5.9	21-3,31-3	3
PHY400W3FE	645	40.6	28.6	3.8	8.1	24.8	79	7	28	4.1	1.05	79.7	28.0	6.0	21-1,21-3	3
Ton Buster Magnum	617	35.4	25.6	4.2	9.5	27.0	84	5	31	4.0	1.01	77.6	24.5	5.4	11-1	2
PHY136W3E1	612	39.9	28.5	3.9	7.6	28.1	63	6	31	4.4	1.07	80.1	30.0	6.7	11-2,11-4	2
SSG UA 248	609	35.3	26.0	4.1	9.5	26.0	89	5	29	4.1	1.11	79.4	29.2	6.1	11-1,21-2	2
BX 2556AXTP	526	36.4	26.8	4.3	8.5	28.6	69	5	36	4.4	1.07	79.3	28.3	5.2	11-2,21-1	2
Mean	707	39.4	28.4	4.1	8.6	26.8	78	5	32	4.3	1.06	79.9	28.5	5.8		2
c.v.%	15	2.0	3.1	4.7	5.5	5.2	12.7	12.3	6.9	5.7	2.3	1.1	3.7	1.7		27.5
LSD 0.05	120	1.3	1.5	0.3	0.8	2.4	12	1	3	0.4	0.04	1.4	1.8	0.2		1

Table 6. Yield, agronomic, and fiber property data from the water limited uniform cotton variety performance trial at Texas A&M AgriLife Lubbock, 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	10/14	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
PHY480W3FE	1167	43.2	31.7	5.0	8.7	29.7	40	5	29	5.3	1.06	80.4	29.9	7.4	11-2	2
ST 5931AXTP	1134	43.2	33.0	6.3	10.0	33.7	33	5	31	5.1	1.11	80.7	29.8	6.5	11-2,21-1	2
PHY136W3E1	1106	42.9	31.8	4.3	8.8	25.7	43	6	27	5.4	1.09	80.5	31.3	6.9	11-2,21-1	2
PHY332W3FE	1101	42.6	31.1	5.2	9.3	30.0	46	6	28	5.3	1.11	81.2	29.8	6.6	11-2	1
DP 2239 B3XF	1079	46.0	34.9	5.0	7.9	32.2	46	5	27	5.4	1.11	80.6	29.2	6.8	11-1	1
PHY415W3FE	1066	41.4	31.3	4.9	9.4	27.8	46	5	31	5.3	1.11	81.6	31.5	6.5	11-2	2
PHY443W3FE	1055	43.8	31.8	5.1	9.4	28.6	64	5	33	5.5	1.07	80.8	30.6	6.6	11-2	1
PHY411W3FE	1043	41.8	30.9	4.1	7.9	27.4	48	5	27	5.6	1.03	80.2	30.2	6.8	11-1,11-2	1
PX1127D245-04W3FE	1021	41.1	30.8	4.2	8.5	26.9	74	5	28	5.5	1.08	81.4	30.3	6.3	11-1	2
DP 2335 B3XF	996	45.4	33.8	5.2	8.1	33.9	49	5	25	5.1	1.12	79.2	31.0	5.7	11-1	1
PHY137W3E1	981	42.5	31.8	4.9	8.0	32.3	55	5	27	5.4	1.11	81.3	31.9	7.2	11-2,21-3	2
PHY475W3FE	976	40.7	29.1	3.9	8.4	25.3	54	5	28	5.5	1.06	79.5	30.7	6.9	11-2,21-1	2
PHY400W3FE	964	43.4	31.9	4.5	7.8	30.6	64	6	25	5.4	1.04	80.8	28.9	6.5	11-1	2
FM 757AXTP	934	45.3	34.2	4.9	7.5	33.0	69	5	29	5.6	1.07	80.3	29.0	5.7	11-1	2
PHY390W3FE	932	43.8	32.6	4.6	8.3	28.9	66	6	26	5.4	1.02	79.5	28.0	6.2	11-1	2
FM 868AXTP	920	43.2	33.0	5.8	9.4	32.2	61	6	29	5.4	1.10	78.4	30.8	6.4	21-1	1
PHY360W3FE	917	44.4	32.8	3.9	7.7	26.8	73	5	28	5.6	1.03	79.3	28.0	6.1	11-1	2
SSG UA 222	913	38.1	29.6	5.3	10.1	30.0	35	4	26	5.3	1.17	82.9	30.4	7.3	11-1,11-2	1
FM 765AX	904	42.9	32.8	5.7	8.1	36.1	79	6	23	5.4	1.09	81.0	30.3	6.7	11-1,11-2	2
PHY250W3FE	895	41.3	29.9	4.9	8.9	30.1	66	7	27	5.4	1.09	80.4	29.2	6.0	11-1,11-2	2
DP 2349NR B3XF	893	43.3	31.6	4.4	8.2	27.8	36	4	31	5.4	1.11	79.8	30.4	6.4	11-1,11-2	1
BX 2511AXTP	876	45.5	34.6	5.2	7.8	34.3	48	6	26	5.0	1.10	80.9	31.1	5.4	11-1	2
PHY205W3FE	865	42.6	30.6	4.9	8.4	30.9	84	7	24	5.5	0.99	79.4	27.6	6.3	11-1	2
DP 2436NR B3TXF	831	45.1	32.6	4.5	8.0	28.9	28	4	28	5.1	1.09	80.2	31.1	7.4	11-2	2
ST 6000AXTP	825	45.7	34.3	5.1	8.1	31.1	38	4	27	5.5	1.11	80.4	31.6	6.6	11-1	2
FM 823AXTP	818	42.6	32.1	5.0	9.0	29.5	84	6	25	5.3	1.09	80.7	30.1	6.8	11-2	2
BSD 9X	817	40.8	29.8	5.0	9.2	30.7	65	6	28	5.5	1.05	79.0	29.1	6.2	11-1	2
PHY210W3FE	774	42.1	29.8	4.5	9.0	27.0	86	7	26	5.5	1.02	80.9	28.5	6.0	11-1,11-2	2
FM 814AXTP	758	43.0	32.5	5.5	8.9	31.4	78	6	25	5.3	1.08	79.7	28.3	5.9	11-1,11-2	1
BX 2556AXTP	746	40.4	30.3	5.1	8.3	32.9	48	5	29	5.2	1.12	79.7	31.1	6.4	11-2,21-1	2
BX 2512AXTP	730	41.1	30.9	4.8	8.7	30.2	70	6	25	5.9	1.09	78.8	29.7	5.8	11-1,11-2	2
Ton Buster Magnum	716	38.6	28.9	4.8	9.3	29.3	65	5	27	5.5	1.06	79.9	28.3	6.4	11-2	2
DP 2317 B3TXF	690	42.7	30.1	3.8	7.2	28.3	46	4	27	5.0	1.09	80.1	29.4	6.0	11-1	2
BSD 4X	684	39.0	28.4	5.0	9.9	28.3	58	6	26	5.2	1.08	79.0	28.9	5.9	11-1	2
SSG UA 248	648	36.8	27.2	4.2	9.7	25.2	70	4	29	5.3	1.12	80.4	30.8	6.8	11-2	2
Mean	908	42.4	31.5	4.8	8.6	29.9	57	5	27	5.3	1.08	80.2	29.9	6.4		2
c.v.%	13.8	2.4	2.5	6.6	5.3	7.1	22.3	10.5	6.7	1.7	3.5	1.0	4.2	2.3		33.3
LSD 0.05	147	1.7	1.3	0.5	0.8	3.6	15	1	2	0.2	0.06	1.3	0.0	0.2		1

Location is known to have reniform nematode pressure, levels not quantified.

Table 7. Yield, agronomic, and fiber property data from the low water uniform cotton variety performance trial at the AG-CARES farm, Lamesa 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/17	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
FM 814AXTP	488	39.0	27.3	3.9	8.3	26.0	82	5	24	3.5	1.04	78.8	25.1	5.4	11-2,21-3	2
FM 765AX	488	39.1	28.5	4.1	8.6	27.0	90	5	24	3.5	1.08	79.5	28.6	5.8	11-1,11-3,11-4	2
DP 2436NR B3TXF	415	37.9	25.8	3.3	7.4	25.4	57	3	21	3.6	1.08	78.4	30.1	6.6	11-1,12-1,12-2	2
FM 757AXTP	408	37.2	27.3	3.9	7.6	29.3	78	5	22	3.7	1.06	77.0	24.0	5.0	11-1,11-4,21-1	2
DP 2317 B3TXF	408	36.8	26.0	3.2	6.9	25.6	78	3	23	3.9	1.03	78.6	23.9	5.3	11-1	2
DP 2239 B3XF	383	39.5	28.9	4.0	7.1	30.7	80	5	24	3.9	1.05	78.0	24.8	5.7	11-1	1
PHY415W3FE	376	37.2	25.4	3.0	8.0	21.5	85	6	21	3.3	1.03	78.4	26.6	6.1	11-4,22-1,22-2	2
DP 2335 B3XF	372	38.7	26.7	3.8	7.7	27.6	55	6	26	3.5	1.02	77.6	24.6	5.3	11-1	2
BX 2512AXTP	367	37.9	26.9	3.9	7.7	28.8	81	5	22	4.2	1.05	78.6	25.0	5.1	11-2,11-3	2
DP 2349NR B3XF	362	40.3	28.7	3.5	7.2	26.5	64	5	27	4.3	0.98	77.8	24.0	5.6	11-2,11-3	2
PHY205W3FE	358	35.0	22.6	3.2	7.7	24.4	88	6	18	3.1	1.00	77.7	25.9	5.6	11-1,11-4,12-1	2
FM 868AXTP	338	38.9	27.5	4.1	8.5	28.1	88	5	24	3.5	1.04	78.3	26.3	5.9	12-1,12-2,21-3	2
PHY250W3FE	333	34.3	22.6	3.2	7.8	24.2	87	5	21	3.1	1.02	77.7	24.8	5.7	11-1,11-2,12-1	2
BX 2556AXTP	329	35.8	26.1	3.7	8.0	25.8	84	6	24	4.0	1.04	78.3	27.5	5.4	11-1,21-1	2
PHY332W3FE	325	35.2	24.2	3.4	7.7	25.5	65	5	24	3.6	1.02	78.4	25.5	6.0	11-3,11-4	2
PHY400W3FE	318	38.2	25.4	2.9	7.4	22.1	75	8	20	3.3	0.97	76.4	24.5	6.0	11-3,11-4	2
PHY480W3FE	318	38.9	26.9	3.5	7.6	25.6	67	6	23	3.6	1.00	78.4	26.5	6.8	11-2,11-3,11-4	2
PHY137W3E1	312	35.9	25.2	3.3	7.6	25.5	60	4	25	3.6	1.04	80.1	29.4	6.6	11-4,22-1	2
FM 823AXTP	311	36.5	25.4	3.6	7.9	26.4	97	5	21	3.4	1.04	78.8	27.4	5.9	11-1,21-1	2
BSD 9X	304	33.6	23.8	3.6	8.2	27.1	73	4	22	3.5	1.01	77.0	25.0	5.7	11-1	2
PHY390W3FE	302	35.3	24.0	2.8	6.7	24.0	87	7	19	3.0	0.97	75.5	23.0	5.8	11-4,21-1	2
ST 5931AXTP	299	37.1	26.1	4.4	8.5	29.2	68	4	23	3.5	1.06	79.0	26.7	6.0	11-2,11-4,21-1	2
PHY411W3FE	293	38.9	28.5	3.3	6.5	26.8	78	5	22	3.9	0.97	77.6	24.5	6.0	11-1,11-3	2
PHY210W3FE	292	39.5	26.0	3.4	7.8	24.5	94	6	18	3.5	1.05	79.4	27.5	5.2	11-4,21-1	2
PHY360W3FE	292	37.5	26.1	3.4	6.9	27.5	87	5	21	3.7	1.03	77.3	24.0	5.3	11-1,12-2	3
Ton Buster Magnum	291	33.9	24.1	3.8	8.5	27.7	70	6	24	3.3	0.98	77.2	23.6	5.5	11-1,12-1	2
PX1127D245-04W3FE	288	33.0	22.1	2.8	7.0	24.2	77	6	22	3.2	1.04	77.5	25.9	5.5	11-1,11-4	2
BSD 4X	286	34.8	24.2	3.8	8.6	27.6	70	6	20	3.2	0.95	76.1	21.9	5.4	11-1	2
PHY136W3E1	279	39.8	27.7	3.4	7.4	25.9	62	6	23	3.7	1.01	77.6	25.6	6.6	11-3,12-2,21-3	2
SSG UA 222	279	33.9	24.9	3.8	8.6	26.9	72	5	21	3.4	1.04	77.7	26.4	6.3	11-1,11-2,11-4	3
PHY443W3FE	269	40.8	28.3	3.7	8.2	25.5	77	5	23	3.8	0.99	77.3	25.9	6.0	12-2,22-1	2
PHY475W3FE	258	35.4	25.2	3.3	7.5	25.1	63	5	24	4.1	0.99	78.0	25.9	6.1	11-1,11-4	2
SSG UA 248	255	32.9	23.5	3.4	8.6	24.7	82	4	22	3.4	1.05	76.7	26.5	6.2	11-1,11-3,12-1	2
BX 2511AXTP	225	37.8	26.8	4.0	8.6	26.0	80	8	21	3.3	1.08	78.9	27.0	4.9	11-1,11-2,12-1	2
Mean	331	37.0	25.9	3.5	7.8	26.1	77	5	22	3.6	1.03	77.9	25.8	5.8		2
c.v.%	16.8	2.4	3.9	10.1	6.3	8.2	1.2	19.3	9.3	8.8	2.70	1.4	5.8	3.2		19.3
LSD 0.05	76	1.2	1.4	0.5	0.7	2.9	14	1	3	0.4	0.04	1.4	2.0	0.2		1

ST 6000AXTP dropped due to poor stand

Table 8. Yield summary over five locations of the uniform variety performace trials conducted by Texas A&M AgriLife Research, Lubbock, 2024.

Designation	Overall Average	Lubbock Irr Rank	Lubbock Water Limited Rank	Halfway Irr Rank	Lamesa Base Irr Rank	Lamesa Low Irr Rank
PHY332W3FE	703	6	4	16	3	15
FM 765AX	700	21	19	7	1	2
PHY136W3E1	698	2	3	1	33	29
DP 2239 B3XF	682	12	5	5	13	6
DP 2335 B3XF	679	7	10	3	9	8
PHY411W3FE	674	1	8	17	17	23
PHY480W3FE	670	19	1	15	11	17
PHY415W3FE	669	16	6	13	10	7
ST 5931AXTP	659	5	2	27	20	22
PHY443W3FE	656	3	7	18	30	31
ST 6000AXTP	654	28	25	22	6	--
PHY475W3FE	642	8	12	2	26	32
PHY137W3E1	628	13	11	8	21	18
PHY205W3FE	628	4	23	23	28	11
FM 757AXTP	620	23	14	20	22	4
PHY390W3FE	620	26	15	26	4	21
SSG UA 222	619	9	18	33	5	30
PX1127D245-04W3FE	617	17	9	24	18	27
PHY400W3FE	616	14	13	14	31	16
PHY360W3FE	611	20	17	4	23	25
PHY250W3FE	610	27	20	9	12	13
FM 868AXTP	608	31	16	19	8	12
FM 823AXTP	603	32	26	11	2	19
BX 2511AXTP	601	10	22	25	7	34
FM 814AXTP	600	29	29	10	16	1
DP 2349NR B3XF	589	24	21	30	25	10
BX 2512AXTP	588	11	31	21	15	9
DP 2436NR B3TXF	588	22	24	29	29	3
BSD 9X	565	15	27	32	27	20
PHY210W3FE	555	33	28	6	24	24
Ton Buster Magnum	547	25	32	12	32	26
DP 2317 B3TXF	539	30	33	35	14	5
BSD 4X	537	18	34	34	19	28
BX 2556AXTP	504	34	30	31	35	14
SSG UA 248	486	35	35	28	34	33

Lubbock locations are known to have reniform nematode pressure, levels not qualified.

Table 9. Yield agromomic, and fiber property data from the irrigated national standards trial at Texas A&M AgriLife Research, Lubbock 2024.

	Agronomic properties						% Open			Fiber properties						
		Lint %		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	10/4	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
DG 3519 B3XF	536	38.2	28.3	3.9	8.2	26.2	70	6	25	4.0	1.09	80.5	31.8	6.1	21-1	3
ARMOR 9371 B3XF	447	41.2	30.7	3.7	8.4	24.0	64	5	25	4.3	1.05	79.1	27.1	5.8	11-2,21-1	2
DP 2012 B3XF	439	37.6	27.6	3.6	7.6	27.2	75	5	25	3.8	1.06	78.3	26.8	5.5	11-1,11-2	2
DP 2127 B3XF	423	41.9	31.8	3.7	8.5	22.8	54	4	24	4.8	1.03	79.5	28.2	5.8	11-1,11-2,21-1,21-2	2
FM 2498GLT	408	37.3	28.2	4.5	9.5	27.2	81	6	22	4.0	1.05	79.3	26.8	5.6	11-2,21-1	3
DP 2239 B3XF	404	39.5	29.3	3.5	7.7	24.7	61	5	23	3.9	1.08	78.7	28.0	6.1	11-1,11-2	1
NG 4936 B3XF	350	36.5	27.7	3.6	7.9	26.3	68	5	23	3.6	1.07	78.8	28.4	6.2	11-1,11-2,21-1	2
ST 5091B3XF	341	38.2	28.1	3.5	7.6	26.2	75	6	25	3.7	1.00	76.8	25.2	5.5	11-1,11-2,21-1	2
Mean	418	38.8	29.0	3.7	8.2	25.6	64	5	24	4.0	1.05	78.9	27.8	5.8		2
c.v.%	16.9	1.9	3.0	9.6	2.6	9.4	19.4	12.4	9.2	6.3	2.2	0.9	3.6	2.1		31.0
LSD 0.05	86	0.9	1.1	0.4	0.3	2.9	16	1	3	0.3	0.03	0.9	1.2	0.2		1

Location is known to have reniform nematode pressure, levels not quantified.

Table 10. Yield, agronomic, and fiber property data from the low water national standards variety performance trial at the AG-CARES farm, Lamesa 2024.

	Agronomic properties						% Open			Fiber properties						
		Lint%		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/18	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
DP 2012 B3XF	345	35.2	25.0	3.3	7.5	26.2	79	4	21	3.3	1.00	75.9	22.8	4.8	11-1,11-3	2
FM 2498GLT	314	38.7	27.1	3.6	8.3	24.7	68	5	20	3.6	1.03	77.9	25.0	5.3	11-2,11-3,11-4	2
DP 2127 B3XF	303	41.1	29.5	3.6	7.4	26.7	59	6	22	4.0	0.95	77.4	22.3	5.1	11-1	1
DG 3519 B3XF	298	35.7	24.6	2.9	7.0	23.4	78	5	20	3.0	1.01	76.9	25.8	5.6	11-1,11-2,21-1	2
DP 2239 B3XF	295	39.0	27.7	3.2	7.1	25.0	75	6	19	3.4	1.01	76.4	23.4	5.3	11-3,12-1	2
ARMOR 9371 B3XF	289	40.0	28.8	3.5	7.5	26.1	73	6	20	3.6	0.99	76.1	22.3	5.3	11-1,11-3	2
ST 5091B3XF	247	36.2	25.8	3.5	7.2	29.0	80	4	21	3.0	0.95	74.5	21.0	5.0	11-1,11-3	2
NG 4936 B3XF	213	33.0	24.3	3.4	8.3	25.9	84	3	18	3.0	1.07	77.7	25.9	5.7	11-4,11-4,12-1	2
Mean	288	37.4	26.6	3.4	7.5	25.9	74	5	20	3.4	1.00	76.6	23.5	5.2		1
c.v.%	24.5	1.8	2.8	7.9	8.0	11.2	13.0	24.6	12.6	5.9	2.0	0.9	4.3	2.4		22.1
LSD 0.05	86	0.8	0.9	0.3	0.7	3.5	12	1	3	0.2	0.02	0.8	1.2	0.2		1

Table 11. Yield, agronomic, and fiber property data from the irrigated new varieties and strains trial at Texas A&M AgriLife Research, Lubbock 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint %		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	10/4	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
PX1150F357-04W3FE	1774	38.0	28.0	4.8	9.7	27.1	51	6	36	4.9	1.14	83.5	31.8	7.5	21-1,31-2	4
ST 5931AXTP	1538	39.4	32.6	6.5	11.0	32.7	56	5	33	4.7	1.19	82.6	31.1	6.6	21-1,21-2	3
PX1140F330-04W3FE	1527	39.9	30.8	4.8	9.0	28.4	75	5	31	4.9	1.12	81.9	30.9	6.6	31-1	4
PX1140F331-04W3FE	1525	39.8	30.9	4.9	9.1	28.7	68	6	32	5.1	1.13	82.1	31.3	6.7	21-2,31-1	3
PX1150F360-04W3FE	1522	38.6	30.0	4.9	10.1	27.1	58	6	27	4.9	1.17	82.8	32.1	6.6	31-1	3
PX1150F361-04W3FE	1437	36.7	28.0	4.7	10.2	25.0	76	6	32	4.8	1.18	83.1	32.7	6.8	31-1	3
PX1126F267-04W3FE	1425	38.9	29.0	4.8	10.0	27.2	70	7	28	4.8	1.14	81.7	32.2	6.5	21-2,31-1	4
PX1140F329-04W3FE	1405	39.0	29.7	4.6	9.7	25.3	75	6	32	4.7	1.15	81.3	32.3	6.6	31-1,31-2	4
PHY332W3FE	1370	38.5	28.4	4.8	9.7	27.0	66	5	34	4.7	1.16	82.2	31.3	6.9	21-2,31-1	3
PHY136W3FE	1344	40.6	30.6	4.8	8.9	28.9	62	5	28	4.8	1.12	81.4	31.1	6.9	21-1	3
PHY411W3FE	1323	38.1	29.4	4.3	8.8	26.8	51	5	29	4.8	1.12	82.3	31.6	6.6	21-2,31-1	3
PX1130F309-04W3FE	1263	38.1	28.3	4.3	8.9	27.1	68	5	29	4.7	1.10	81.9	31.1	6.3	21-2,31-1	3
PX1126F263-04W3FE	1234	39.8	30.2	5.0	9.6	28.5	69	6	28	4.9	1.10	80.7	29.9	6.5	21-2	4
PX1127D245-04W3FE	1028	33.7	24.9	4.3	9.2	26.3	84	6	26	4.5	1.13	81.8	32.1	6.1	31-1,31-2	4
BSD TB19CXP0022	971	39.6	32.8	4.6	9.9	26.0	78	5	31	5.1	1.08	80.3	29.8	6.2	31-1	4
BX 2512AXTP	966	37.8	27.4	4.6	8.3	30.6	68	5	30	5.3	1.16	80.8	30.3	5.9	21-2,31-1	3
PHY205W3FE	877	37.3	28.1	4.9	9.3	30.2	94	7	24	4.4	1.04	81.9	29.2	6.0	21-2,31-1	3
19-1-305BB	876	33.3	25.0	4.6	10.0	28.3	53	6	30	4.9	1.16	82.7	32.7	6.0	21-1	2
DP 2541 B3XF	774	39.3	30.2	4.0	7.7	29.3	51	4	32	4.7	1.12	80.4	28.4	6.2	21-1	2
CA 4019	771	38.8	29.6	5.1	9.6	30.3	68	4	27	4.7	1.20	82.7	32.5	5.8	21-1,21-2	2
MAY 558	765	37.5	28.3	4.4	8.5	29.6	91	4	30	4.6	1.12	81.9	29.9	6.1	21-2	2
BSD TB19CXP0014-12	753	36.6	28.3	4.7	9.0	29.6	68	3	29	4.7	1.09	81.1	29.4	6.1	21-2,31-1	3
23R9128B3TXF	739	36.0	27.4	4.2	8.7	28.2	54	5	29	4.2	1.15	82.3	30.3	7.1	11-2,21-1	2
FM 757AXTP	661	38.3	30.2	4.8	8.2	32.6	66	5	25	4.7	1.16	80.8	29.6	5.9	21-1,31-1	3
MAY 808	648	32.7	24.8	4.6	9.9	27.9	78	5	28	4.7	1.13	81.5	31.3	6.3	21-1,21-2	3
BX 2511AXTP	646	39.1	30.6	4.5	8.1	30.2	58	7	27	4.4	1.11	79.8	28.9	5.5	21-2	3
19-4-517V	633	34.7	25.8	4.7	10.8	26.6	80	7	26	4.4	1.22	81.7	32.4	6.0	21-2,31-1	3
BSD 9X	629	35.4	27.4	4.9	9.8	29.1	83	4	26	4.6	1.05	80.3	29.6	5.9	21-1,31-1	3
ST 5855AXTP	628	41.5	32.4	4.6	8.2	29.9	44	6	28	4.6	1.12	80.2	30.3	6.4	31-1	3
PHY137W3FE	613	35.6	26.1	3.5	8.2	23.5	91	4	24	3.9	1.11	81.0	31.0	6.8	31-2	4
DP 2525 B3XF	599	37.4	29.7	4.4	8.5	29.3	70	6	28	5.0	1.20	82.4	33.7	6.4	21-1,21-2	2
BX 2556AXTP	598	35.0	27.3	4.8	8.7	30.9	53	5	28	4.3	1.17	80.8	31.2	6.1	31-1,41-1	4
FM 814AXTP	595	40.8	31.7	4.4	8.6	27.3	69	7	24	4.4	1.07	79.9	27.9	5.9	21-1,31-1	3
MAY 509	589	37.8	28.2	4.5	8.8	29.0	93	4	25	4.3	1.15	80.4	30.3	6.0	21-1,31-1	3
XC215094	583	39.3	28.7	4.1	8.4	27.0	79	6	28	3.9	1.07	79.7	28.9	5.8	31-1	3
BSD TB19CXP00214	560	35.8	27.1	4.7	10.1	27.8	69	4	27	4.7	1.08	81.0	29.5	6.3	21-2,31-1	3
XC204035	543	36.7	27.4	4.0	8.7	26.8	86	4	25	4.1	1.07	80.8	28.7	5.8	31-1	3
ST 4833AXTP	505	35.5	27.5	4.2	9.4	25.5	64	5	29	4.2	1.13	80.9	28.9	5.8	31-1	4
BSD TB19CXP00310	502	33.2	25.1	4.4	9.9	27.4	91	3	20	4.2	1.08	81.5	29.4	6.2	31-1	3
MAY 766	499	35.6	26.6	4.5	9.1	28.9	80	5	27	4.6	1.08	80.8	28.1	5.9	21-2,31-1	3
Mean	931	37.5	28.6	4.6	9.2	28.2	70	5	28	4.6	1.13	81.4	30.6	6.3		3
c.v.%	15.0	1.8	2.4	5.8	5.4	6.3	22.3	17.1	10.3	4.1	2.9	1.0	3.1	2.3		20.0
LSD 0.05	163	1.1	1.1	0.4	0.8	3.0	18	1	3	0.3	0.05	1.4	1.6	0.2		1

Location is known to have reniform nematode pressure, levels not quantified.

Table 12. Yield, agronomic, and fiber property data from the high water Verticillium wilt cotton variety performance trial at Texas A&M AgriLife Research, Halfway 2024.

		Agronomic properties					% Open			Fiber propeties								
		Lint%		Boll	Seed		Bolls					Unif-		Elong-			Def	Wilt
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/30	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf	%	%
PHY137W3E1	841	36.4	28.0	5.2	8.7	26.6	66	4	24	5.1	1.10	82.9	34.8	7.5	21-3	2	39.6	6.9
DP 2541 B3XF	832	38.1	29.4	5.0	8.0	28.2	39	4	28	5.4	1.07	80.8	31.4	6.4	11-1	1	39.1	7.3
DP 2335 B3XF	825	38.3	29.8	5.8	8.6	31.4	45	6	24	4.9	1.09	81.4	34.0	5.3	11-1	1	32.5	3.0
FM 765AX	810	39.1	30.2	5.7	8.4	29.9	86	4	21	5.3	1.03	81.6	32.2	6.2	21-1	2	32.2	3.8
PHY136W3E1	804	38.2	29.3	5.0	7.9	27.8	68	6	24	4.8	1.07	80.4	32.7	7.0	11-1,11-3	2	44.0	5.5
PHY332W3FE	802	36.7	27.5	5.4	8.7	28.1	50	6	24	4.9	1.11	81.6	33.6	6.6	11-4,21-1	2	23.5	6.5
PX1140F330-04W3FE	794	36.8	27.9	5.4	8.8	27.9	31	6	25	4.9	1.10	82.4	31.5	6.9	11-2	2	40.9	5.6
DP 1822 XF	776	36.5	28.9	5.3	9.7	26.0	69	4	25	5.1	1.08	81.4	34.3	5.8	11-2,21-1	2	44.0	8.4
FM 823AXTP	756	37.4	28.7	5.4	9.1	27.6	65	5	21	5.0	1.09	81.6	33.4	6.5	11-2	2	35.2	2.3
PX1140F331-04W3FE	755	37.7	28.7	5.0	9.1	24.2	21	7	24	4.9	1.09	82.8	35.9	6.3	21-1	2	44.3	4.4
PX1150F357-04W3FE	754	37.1	27.6	4.9	9.0	24.6	26	7	25	5.0	1.07	82.5	35.3	7.4	21-1,31-1	2	31.0	2.9
FM 868AXTP	754	38.2	29.7	6.1	9.6	30.0	61	6	24	4.8	1.08	82.0	33.3	6.5	11-2,21-3	2	56.0	7.5
PX1150F360-04W3FE	753	36.9	28.2	5.0	9.4	24.5	39	7	26	4.8	1.15	83.9	35.5	6.6	11-2,21-1	3	38.6	5.9
FM 814AXTP	751	40.5	31.7	5.7	8.9	28.2	74	5	21	5.5	1.05	80.6	28.9	5.8	11-2,21-1	2	27.1	3.5
PX1126F267-04W3FE	750	35.6	26.3	5.3	9.2	27.9	29	6	22	4.6	1.12	82.7	34.6	6.4	11-2,21-1	2	42.6	5.4
DP 2525 B3XF	749	37.1	29.9	5.5	8.5	29.8	56	4	27	5.1	1.15	83.1	36.8	6.2	11-2,21-1	1	34.5	5.9
19-4-517V	735	33.7	26.3	5.4	9.4	28.9	66	5	24	5.5	1.07	81.6	35.0	5.7	11-2	1	41.6	7.7
DP 2317 B3TXF	730	35.7	27.4	4.5	7.6	27.7	55	4	26	4.7	1.09	81.3	30.6	5.8	11-1	1	47.9	8.3
ST 5931AXTP	707	38.6	29.9	6.2	9.8	29.8	24	6	24	4.8	1.09	82.3	33.3	6.2	11-1,21-1	2	35.8	5.2
PX1126F263-04W3FE	706	36.0	26.2	5.2	9.5	24.9	38	7	22	5.0	1.06	82.0	34.0	6.6	21-1,21-3	2	52.7	4.1
SSG 248	702	35.0	27.8	5.3	9.4	28.4	86	3	23	5.0	1.09	81.9	32.5	6.5	11-1	1	51.2	13.0
PX1140F329-04W3FE	691	35.2	26.2	4.6	8.7	23.8	29	6	26	4.6	1.10	81.8	32.8	6.4	11-3,21-1	2	48.8	5.7
BX 2511AXTP	690	38.2	29.8	5.5	8.8	28.1	71	7	23	4.7	1.10	81.7	32.9	5.2	11-1,21-1	1	40.8	3.8
PX1127D245-04W3FE	679	33.4	25.2	4.7	8.4	26.0	81	6	21	4.9	1.10	82.5	33.5	6.1	11-2,21-1	2	44.5	4.2
PX1150F361-04W3FE	679	34.5	26.1	4.7	9.3	22.8	31	7	23	4.7	1.13	83.4	34.0	6.7	11-4,21-1	2	41.6	2.6
DP 2436NR B3TXF	675	38.7	29.6	4.9	8.0	26.4	40	4	25	5.0	1.09	81.6	32.2	7.3	11-2,21-1	2	38.6	9.7
PHY250W3FE	674	34.0	24.6	5.1	9.7	24.9	78	4	22	4.9	1.08	81.0	30.7	6.0	11-1,21-1	2	29.4	5.0
ST 5855AXTP	668	40.7	31.9	5.4	8.6	26.9	35	5	24	5.1	1.07	81.5	33.6	6.3	11-2,21-1	2	38.5	6.1
PHY210W3FE	656	36.7	26.6	5.1	9.3	25.3	74	6	20	5.0	1.06	82.9	32.1	5.8	11-1,11-2	2	34.2	3.5
ST 4833AXTP	652	35.8	27.9	5.2	9.6	25.1	53	4	29	5.1	1.12	83.1	30.9	5.6	11-1,11-2	2	39.8	4.5
BX 2556AXTP	647	34.2	26.7	5.2	9.3	26.3	41	5	25	4.9	1.12	81.5	34.8	5.9	21-1,21-2	3	37.3	2.6
PX1130F309-04W3FE	644	36.3	27.4	4.8	8.7	26.0	35	6	25	4.7	1.09	82.9	33.1	6.2	11-2,21-1	2	39.5	2.5
FM 757AXTP	615	36.8	28.6	4.9	8.4	25.5	74	4	20	5.2	1.09	80.2	30.7	5.3	11-2,21-1	2	32.5	6.4
PHY205W3FE	595	36.6	26.8	5.1	9.3	25.5	76	6	20	5.0	1.03	81.1	29.8	6.1	11-1	2	24.8	4.8
BX 2512AXTP	576	36.0	27.7	5.4	8.8	28.3	55	5	24	5.4	1.12	81.5	32.1	5.5	11-1	2	29.4	5.8
Mean	721	36.8	28.1	5.2	8.9	26.9	53	5	24	5.0	1.09	81.9	33.0	6.2		2	38.7	5.4
c.v.%	11.4	2.0	3.0	5.9	2.3	7.2	25.3	15.4	7.9	3.6	2.1	0.8	3.6	3.2		21.0	0.035	0.004
LSD 0.05	97	1.3	1.4	0.5	0.4	3.3	16	1	2	0.3	0.04	1.0	2.0	0.3		1	MSD 25	MSD 5.8

Table 13. Yield, agronomic, and fiber property data from the high water root-knot nematode cotton variety performance trial at the AG-CARES farm, Lamesa 2024.

		Agronomic properties					% Open Bolls			Fiber properties							Root-knot nematode		
		Lint%		Boll	Seed							Unif-	Stre-	Elong-		Color		Log10	
Designation	Yield	Picked	Pulled	Size	Index	SPB	9/18	SR	Hgt	Mic	Length	ormity	ngth	ation	Leaf	Grade	RK	(RK+1)	waller
FM 765AX	945	38.4	28.7	4.1	7.8	28.0	91	6	29	3.7	1.07	80.0	28.0	5.7	3	11-1	3910	3.41	abc
PHY480W3FE	901	38.7	27.7	3.8	8.4	24.6	86	6	31	3.8	1.03	79.8	25.8	6.4	2	11-1,11-3	73	1.08	g-j
23R9915B3TXF	897	39.4	29.7	3.8	7.6	26.6	97	5	31	3.8	1.06	79.5	24.7	5.1	3	11-1,11-2	2195	2.41	a-g
PX1140F330-04W3FE	894	37.9	27.9	3.8	8.1	24.7	83	5	31	4.1	1.05	79.2	25.6	6.2	3	11-2,21-1	25	0.50	ij
PX1150F357-04W3FE	888	40.1	29.3	4.0	8.0	26.3	73	5	34	4.1	1.00	80.0	26.4	6.8	3	11-1,11-2	1130	1.64	e-i
PX1150F361-04W3FE	883	37.6	28.0	3.5	8.3	23.0	83	6	29	3.9	1.08	80.2	26.4	6.1	3	11-4,21-3	30	0.52	ij
PX1140F329-04W3FE	851	38.1	27.4	3.5	8.1	23.5	78	6	31	3.7	1.03	78.0	23.3	6.1	3	11-2	98	0.65	hij
PX1126F267-04W3FE	835	38.6	28.0	3.7	9.0	23.0	81	5	28	4.2	1.05	80.2	28.4	5.8	3	11-2,21-1	0	0.00	j
PHY411W3FE	833	41.2	29.7	3.2	6.5	25.4	89	6	30	4.0	0.97	78.9	24.0	5.8	3	11-1	25	0.50	j
PHY400W3FE	823	39.1	28.1	3.3	7.7	23.6	88	7	25	3.7	1.01	77.6	23.7	5.7	2	11-1	1540	3.12	a-d
BX 2556AXTP	805	37.7	29.6	4.5	8.5	29.2	89	6	33	3.9	1.10	79.1	27.2	5.6	3	11-2,21-1	5198	3.65	a
PHY443W3FE	805	39.2	28.0	3.9	8.0	26.6	88	5	30	3.9	1.02	78.4	24.9	5.8	2	11-1,11-3	68	1.45	f-i
PX1140F331-04W3FE	800	38.3	27.8	3.5	8.4	22.6	86	6	32	4.0	1.06	80.1	25.6	6.0	4	11-2,21-1	1105	1.43	f-j
PHY475W3FE	787	37.1	27.0	3.8	8.1	26.7	83	5	30	4.2	1.02	79.0	25.9	6.2	3	11-2,11-3	0	0.00	j
PX1126F263-04W3FE	777	38.3	27.4	4.1	8.5	26.3	85	6	29	3.6	1.05	79.1	25.7	6.0	3	11-1,12-2	55	0.99	g-j
PHY390W3FE	776	38.1	27.2	3.3	7.5	24.1	93	7	24	3.6	1.01	77.7	24.5	5.8	3	11-1,11-2	2798	3.26	a-d
PX1130F309-04W3FE	773	38.5	28.5	3.5	7.5	25.8	83	6	31	3.9	1.03	79.7	26.3	6.0	2	11-2,11-3	163	1.12	f-j
DP 2335 B3XF	758	39.6	29.1	3.8	7.4	27.5	86	5	32	3.7	1.05	78.4	24.0	5.3	2	11-1	9355	3.63	a
DP 2143NR B3XF	757	37.9	27.5	4.0	8.6	25.5	74	4	34	4.6	1.09	80.2	27.0	5.7	2	11-1,11-3	0	0.00	j
ST 5931AXTP	750	40.1	30.5	5.2	10.0	28.1	81	5	33	3.9	1.07	79.6	26.0	5.9	2	11-1,11-2	2018	1.40	f-j
FM 814AXTP	747	39.0	29.4	4.4	8.2	29.2	97	6	28	3.7	1.07	79.3	26.0	5.5	3	11-1,11-3	5963	3.59	ab
PX1127D245-04W3FE	716	35.2	25.4	3.7	7.7	27.4	96	6	28	3.7	1.08	79.3	26.7	5.6	4	21-1	520	2.11	c-g
FM 823AXTP	711	36.9	27.7	3.7	7.8	27.2	98	6	26	3.4	1.07	79.2	27.4	5.8	2	11-1	4215	3.44	abc
FM 757AXTP	709	38.8	29.6	4.4	7.8	30.7	98	5	26	3.9	1.09	78.6	24.8	5.2	2	11-1,11-3	5785	3.62	a
PX1150F360-04W3FE	708	35.8	26.4	3.8	8.0	26.9	85	5	30	3.2	1.07	78.0	26.0	6.2	3	21-1,22-1	0	0.00	j
PHY332W3FE	690	37.3	26.2	3.4	7.5	25.0	81	6	31	3.3	1.01	76.2	22.6	6.0	3	11-2,12-1	175	1.63	e-i
DP 2436NR B3TXF	689	38.7	27.5	3.6	7.2	26.3	86	4	32	3.6	1.09	78.0	27.2	6.7	2	11-3,12-1	2540	3.11	a-d
PHY137W3E1	686	35.2	25.1	3.8	7.9	26.8	86	5	30	3.6	1.09	80.3	26.7	6.3	3	21-3	2403	3.05	a-e
ST 6000AXTP	684	41.2	30.6	4.2	7.9	27.2	88	5	32	4.0	1.06	79.8	28.8	6.0	2	11-1	4105	3.52	abc
PHY136W3E1	679	39.6	28.9	3.7	7.5	26.8	91	6	28	3.9	1.03	77.9	24.0	6.2	3	11-1,11-3	5135	2.12	c-g
BX 2512AXTP	658	37.8	27.9	4.2	8.1	28.4	95	5	29	4.3	1.07	79.3	24.7	5.2	2	11-1	0	0.00	j
DP 2349NR B3XF	650	40.3	29.6	3.4	7.2	25.5	81	5	36	4.2	0.99	78.3	22.9	5.4	2	11-1,11-3	673	2.18	b-g
BX 2511AXTP	634	38.1	28.7	4.0	7.9	28.6	97	6	29	3.2	1.10	78.5	25.7	5.1	2	11-3	3070	3.11	a-d
ST 5855AXTP	631	40.6	30.6	4.5	7.9	29.1	94	5	29	3.9	1.05	78.7	26.7	5.9	2	11-1	4038	3.49	abc
FM 868AXTP	627	34.8	24.6	4.1	8.9	26.0	93	5	30	3.3	1.07	78.4	27.5	5.8	3	12-1	385	1.85	d-i
PHY205W3FE	616	36.1	25.4	3.7	7.7	27.5	99	8	24	3.6	1.00	78.6	24.2	5.5	3	11-1	483	2.54	a-f
ST 4833AXTP	604	34.9	25.6	3.9	8.0	27.8	93	3	35	3.7	1.09	79.4	25.0	5.3	3	11-1,12-1	403	1.96	d-h
Mean	756	38.2	28.0	3.8	7.9	26.4	88	5	30	3.8	1.05	79.0	25.7	5.8	2		1883	1.95	
c.v.%	8.5	1.8	2.8	6.6	3.9	6.0	6.1	12.2	6.3	5.1	2.3	1.2	4.8	2.0	20.1				
LSD 0.05	75	1.2	1.3	0.4	0.5	2.7	6	1	2	0.3	0.04	1.6	2.1	0.2	1			1.43	

Table 14. Yield, agronomic, and fiber quality data from the late planted cotton variety trial at Texas A&M AgriLife Research, Lubbock 2024.

		Agronomic properties					% Open			Fiber properties						
		Lint %		Boll	Seed		Bolls					Unif-		Elong-		
Designation	Yield	Picked	Pulled	Size	Index	SPB	11/22	SR	Height	Mic	Length	ormity	Strength	ation	CG	Leaf
PHY136W3E1	939	38.1	27.8	4.3	9.5	27.8	83	6	23	4.4	1.22	84.2	32.2	7.0	21-1,31-1	4
PX1126F267-04W3FE	908	34.5	26.7	4.5	9.7	27.2	66	6	24	4.0	1.09	78.8	30.2	6.0	21-2,31-1	3
PX1150F357-04W3FE	906	34.4	26.3	4.2	9.0	26.1	79	6	28	4.1	1.09	79.2	29.1	7.0	21-1,21-2	4
PX1150F361-04W3FE	869	31.9	24.1	3.9	9.8	24.2	71	5	25	3.9	1.15	77.8	29.9	6.4	31-1	4
PX1130F309-04W3FE	856	35.0	25.5	4.0	8.6	27.3	85	4	26	3.9	1.07	78.0	28.7	5.9	21-2,31-1	2
PX1140F329-04W3FE	852	35.2	27.5	4.3	9.8	24.5	71	6	26	3.9	1.11	77.8	28.4	6.0	21-1,21-2	3
PX1126F263-04W3FE	839	32.4	24.5	4.3	9.3	26.3	75	6	24	3.8	1.07	76.7	29.8	6.2	31-1	3
PX1150F360-04W3FE	831	32.2	24.4	4.2	9.9	25.7	79	5	25	4.0	1.15	78.4	30.6	6.3	31-1	3
PX1140F331-04W3FE	813	33.4	25.8	4.5	9.9	26.3	80	5	26	4.1	1.11	77.2	29.7	6.3	31-1	3
PX1140F330-04W3FE	805	33.8	25.9	4.4	9.5	27.0	83	4	23	4.0	1.11	78.5	29.2	6.3	21-2,31-1	4
PHY400W3FE	789	34.2	27.2	4.5	8.5	29.2	74	6	21	4.1	1.07	76.9	28.5	5.9	21-1,31-1	3
PHY332W3FE	777	34.3	26.0	4.5	9.1	28.2	59	5	26	4.0	1.09	78.3	28.4	6.2	21-1,21-2	3
PX1127D245-04W3FE	735	29.4	22.3	4.0	8.3	28.5	91	5	23	3.9	1.13	77.8	29.0	5.8	21-1,31-1	3
PHY390W3FE	695	34.4	27.2	4.1	8.2	27.6	84	5	20	3.8	1.05	76.1	27.8	5.7	21-2,31-1	3
FM 765AX	693	36.2	28.4	4.6	8.3	30.5	90	5	22	3.9	1.08	78.0	28.4	6.1	21-1,21-2	3
22R8011B3XF	666	36.1	28.3	3.9	7.3	29.0	81	4	27	4.2	1.04	76.7	27.6	6.1	21-1,21-2	2
ST 6000AXTP	656	38.0	30.1	4.4	7.5	31.4	81	4	27	3.8	1.11	77.3	29.3	6.3	21-2,31-1	2
BX 2512AXTP	656	37.7	29.0	4.7	8.1	31.2	86	6	23	4.5	1.09	76.8	28.1	5.5	21-2	2
PHY137W3E1	649	31.8	24.3	3.6	8.2	25.8	89	3	23	3.7	1.08	78.7	29.1	6.5	31-3	3
PHY205W3FE	636	34.2	24.5	4.3	9.2	27.7	92	6	20	4.0	1.05	78.4	28.5	5.6	31-1	3
BX 2511AXTP	616	34.3	28.5	4.7	8.2	30.5	85	5	25	3.7	1.11	76.8	29.4	5.3	21-2	2
FM 868AXTP	600	33.7	27.1	4.7	9.3	28.9	89	5	25	3.7	1.08	77.3	27.9	6.3	21-1	2
PHY210W3FE	597	33.7	25.6	4.0	8.7	26.3	87	5	21	4.0	1.05	76.9	27.4	5.5	31-1	3
FM 814AXTP	583	37.2	28.4	4.1	8.3	27.0	94	7	21	3.8	1.03	75.9	25.5	5.5	21-1,31-1	2
PHY250W3FE	577	31.4	24.1	3.9	8.4	26.1	88	4	21	3.7	1.07	77.1	28.7	5.6	21-1,21-2	3
FM 823AXTP	565	32.1	26.3	4.2	8.2	29.3	90	6	20	3.6	1.08	78.3	28.3	6.1	21-1	2
FM 757AXTP	498	35.1	27.8	4.1	7.6	30.0	88	4	22	4.2	1.08	76.0	26.9	5.3	21-1,31-1	3
Mean	726	34.3	26.4	4.3	8.7	27.8	82	5	24	3.9	1.09	77.8	28.8	6.0		3
c.v.%	15.3	3.0	3.0	5.7	5.3	5.9	14.9	17.2	10.7	4.9	2.6	2.3	3.4	2.7		16.8
LSD 0.05	130	1.4	1.1	0.3	0.6	2.3	14	1	3	0.3	0.04	2.5	1.3	0.2		1

Location is known to have reniform nematode pressure, levels not quantified.

Table 15. Results from the bacterial blight cotton variety screening trial at Texas A&M AgriLife, Lubbock 2024.

Designation	Average Blight (%)	Rating
FM 757AXTP	0.00	Resistant
FM 814AXTP	0.00	Resistant
ST 4883AXTP	0.00	Resistant
23R9128B3TXF	0.00	Resistant
DP 1822 XF	0.00	Resistant
DP 2525 B3XF	0.00	Resistant
PX1126F267-04W3FE	0.00	Resistant
PX1127D245-04W3FE	0.00	Resistant
PX1140F331-04W3FE	0.00	Resistant
PX1140F330-04W3FE	0.00	Resistant
PX1150F360-04W3FE	0.00	Resistant
PX1150F361-04W3FE	0.00	Resistant
PX1130F309-04W3FE	0.00	Resistant
PX1150F357-04W3FE	0.00	Resistant
19-4-517V	1.25	Resistant
BX 2511AXTP	1.25	Resistant
ST 5931AXTP	1.25	Resistant
ST 5855AXTP	1.25	Resistant
DP 2541 B3XF	1.25	Resistant
PX1126F263-04W3FE	1.25	Resistant
PX1140F329-04W3FE	1.25	Resistant
BX 2512AXTP	2.50	Resistant
BX 2556AXTP	3.75	Resistant
DP 2143NR B3XF	100.00	Susceptible
Prob>F	0.0001	

Table 16. Variety Index for the cotton performance trials conducted by Texas A&M AgriLife Research Lubbock, 2024.

Designation Page:	Uniform OVT 8-12	Location Summary 13	National Standards 14	Vew Varieties 16	Verticllium wilt 17	Root-knot Nematode 18	Late Planted 19	Bacterial Blight 20
19-1-305BB				x				
19-4-517V				x	x			x
CA 4019				x				
ARMOR 9371 B3XF			x					
BSD 4X	x	x						
BSD 9X	x	x		x				
BSD TB19CXP0014-12				x				
BSD TB19CXP00214				x				
BSD TB19CXP0022				x				
BSD TB19CXP00310				x				
Ton Buster Magnum	x	x						
DG 3519 B3XF			x					
22R8011B3XF							x	
23R9128B3TXF				x				
23R9128B3TXF								x
23R9915B3TXF						x		
DP 1822 XF					x			x
DP 2012 B3XF			x					
DP 2127 B3XF			x					
DP 2143NR B3XF						x		x
DP 2239 B3XF	x	x	x					
DP 2317 B3TXF	x	x			x			
DP 2335 B3XF	x	x			x	x		
DP 2349NR B3XF	x	x				x		
DP 2436NR B3TXF	x	x			x	x		
DP 2525 B3XF				x	x			x
DP 2541 B3XF				x	x			x
BX 2511AXTP	x	x		x	x	x	x	x
BX 2512AXTP	x	x		x	x	x	x	x
BX 2556AXTP				x	x	x		x
FM 2498GLT			x					
FM 757AXTP	x	x		x	x	x	x	x
FM 765AX	x	x			x	x	x	
FM 814AXTP	x	x		x	x	x	x	x
FM 823AXTP					x	x	x	
FM 868AXTP					x	x	x	
ST 4833AXTP				x	x	x		x
ST 5091B3XF			x					
ST 5855AXTP				x	x	x		x
ST 5931AXTP	x	x		x	x	x		x
ST 6000AXTP	x	x				x	x	
MAY 509				x				
MAY 558				x				
MAY 766				x				
MAY 808				x				
NG 4936 B3XF			x					

Designation Page:	Uniform OVT 8-12	Location Summary 13	National Standards 14	Vew Varieties 16	Verticllium wilt 17	Root-knot Nematode 18	Late Planted 19	Bacterial Blight 20
PHY136W3E1	x	x		x	x	x	x	
PHY137W3E1	x	x		x	x	x	x	
PHY205W3FE	x	x		x	x	x	x	
PHY210W3FE					x		x	
PHY250W3FE	x	x			x		x	
PHY332W3FE	x	x		x	x	x	x	
PHY360W3FE	x	x						
PHY390W3FE	x	x				x	x	
PHY400W3FE	x	x				x	x	
PHY411W3FE	x	x		x		x		
PHY415W3FE	x	x						
PHY443W3FE	x	x				x		
PHY475W3FE	x	x				x		
PHY480W3FE	x	x				x		
PX1126F263-04W3FE				x	x	x	x	x
PX1126F267-04W3FE				x	x	x	x	x
PX1127D245-04W3FE	x	x		x	x	x	x	x
PX1130F309-04W3FE				x	x	x	x	x
PX1140F329-04W3FE				x	x	x	x	x
PX1140F330-04W3FE				x	x	x	x	x
PX1140F331-04W3FE				x	x	x	x	x
PX1150F357-04W3FE				x	x	x	x	x
PX1150F360-04W3FE				x	x	x	x	x
PX1150F361-04W3FE				x	x	x	x	x
SSG 248					x			
SSG UA 222	x	x						
SSG UA 248								
XC204035				x				
XC215094				x				