

**2019 Southern High Plains
Replicated Agronomic Cotton Evaluation (RACE) Trial Results**

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PRELIMINARY VERSION



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Appreciation is also extended to Dr. Brendan Kelly and staff at the Fiber Biopolymer Research Institute at Texas Tech University in Lubbock for ginning and HVI fiber analysis of samples, as well as their continued support of our activities.

2019 VARIETY LIST

	Dryland	Irrigated
1	DP1646 B2XF	CP9598 B3XF
2	DP1948 B3XF	DP1549 B2XF*
3	FM2334 GLT	DP1820 B3XF
4	NG3930 B3XF	DP1845 B3XF
5	NG3956 B3XF	FM2498 GLT
6	NG4777 B3XF	FM2574 GLT
7	NG4792 XF	NG3930 B3XF
8	ST5707 B2XF	NG3956 B3XF
9	WFU19XB9 B3XF	NG4777 B3XF
10		NG4792 XF
11		ST5600 B2XF
12		WFU 19XB9 B3XF

*Grower Entry



2019 VARIETY LINEUP CHARACTERISTICS

Table 1. Characteristics of varieties included in the 2019 Replicated Agronomic Cotton Evaluation (RACE) trials in the Southern High Plains of Texas. All information was retrieved from each seed company website.

Variety	Maturity	Herbicide Package	Leaf Type	Storm Tolerance	Plant Height	MIC	Verticillium	Bacterial Blight
DeltaPine 1820 B3XF	Early-Mid	Glufos, Glyphos, and Dicamba	Semi-Smooth	4	Medium-Tall	4.6	Moderate	Resistant
NexGen 3930 B3XF	Early-Mid	Glufos, Glyphos, and Dicamba	Semi-Smooth	7	Medium-Tall	4.1 - 4.5	Good	Mod. Resistance
NexGen 3956 B3XF	Early-Mid	Glufos, Glyphos, and Dicamba	Semi-Smooth	8	Medium-Tall	4.3 - 4.7	Very Good	Mod. Resistance
Croplan 9598 B3XF	Medium	Glufos, Glyphos, and Dicamba	Smooth	3	Medium	4.3 - 4.7	Susceptible	Resistant
FiberMax 2334 GLT	Medium	Glyphosate and Glufosinate	Smooth	5	Medium/Moderate	4.1	Very Good	Resistant
FiberMax 2498 GLT	Medium	Glyphosate and Glufosinate	Semi-Smooth	6	Medium-Tall	4.4	Very Good	Resistant
NexGen 4777 B2XF	Medium	Glufos, Glyphos, and Dicamba	Smooth	6	Tall	4.0 - 4.7	Very Good	Mod. Resistance
NexGen 4792 XF	Medium	Glufos, Glyphos, and Dicamba	Smooth	6	Medium-Tall	3.7 - 4.6	Very Good	Mod. Resistance
DeltaPine 1646 B2XF	Mid-Full	Glufos, Glyphos, and Dicamba	Smooth	5	N/A*	4.5	Mod. Susceptibility	Mod. Resistance
DeltaPine 1845 B3XF	Mid-Full	Glufos, Glyphos, and Dicamba	Semi-Smooth	4	N/A	4.2	Mod. Susceptibility	Mod. Resistance
DeltaPine 1948 B3XF	Mid-Full	Glufos, Glyphos, and Dicamba	Smooth	4.5	Medium-Tall	4.1	Mod. Susceptibility	Mod. Susceptibility
FiberMax 2574 GLT	Mid-Full	Glyphosate and Glufosinate	Smooth	5	Medium-Tall	4.1	Very Good	Resistant
Stoneville 5600 B2XF	Mid-Full	Glufos, Glyphos, and Dicamba	Semi-Smooth	5	Tall/Vigorous	4.7	Good	Susceptible
Stoneville 5707 B2XF	Mid-Full	Glufos, Glyphos, and Dicamba	Semi-Smooth	4	Tall/Vigorous	4.2	Fair	Resistant
WinField United 19XB9 B3XF	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Information not available on website.

Variety descriptions, rankings and characteristics obtained from each seed company website.

2019 TRIAL LOCATION DETAILS

Table 2. Location, Cooperator, and other relevant remarks for the 2019 Southern High Plains Replicated Agronomic Cotton (RACE) Evaluation trials.

	Location	Irrigation	Cooperator	Planting Date	Harvest Date	Seeding Rate seeds/a	Remarks
1	Crosby	No	Erik Alvarado	5/22/19	Lost	Lost	Lost ¹ /Hail
2	Dawson	No	Ag-CARES	5/23/19	26-Nov	38,000	Herbicide Damage ²
3	Dawson	No	Will Cozart	Lost	Lost	Lost	Lost
4	Hale	Yes	Michael Looney	5/20/19	18-Dec	52,500	Lost/Sampled ³
5	Hale	Yes	Halfway Station	6/4/19	18-Nov	47,500	Herbicide Damage
6	Hall	No	Brice Hatley	Lost	Lost	Lost	Lost/Freeze
7	Hall	Yes	Brice Hatley	Lost	Lost	Lost	Lost/Freeze
8	Hockley	No	Danny Dukatnik	6/11/19	12-Nov	29,000	Lost/Sampled
9	Lamb	No	Clay Graves/Troy McDann	5/15/19	Lost	Lost	Lost/Hail/Sand
10	Lubbock	No	Cole Hamilton	5/30/19	23-Oct	25,000	Round Modules ⁴ /Herbicide Damage (2,4-D)
11	Lubbock	No	Station	5/15/19	15-Nov	35,400	Hail Damage
12	Lubbock	Yes	Eddie Speer	5/30/19	15-Nov	32,000	Hail Damage
13	Lubbock	No	Glover	5/15/19	2-Dec	35,400	Hail Damage
14	Mitchell	No	Andrew Sauer	6/13/19	4-Dec	35,000	Herbicide Damage
15	Terry	Yes	Clay and David Lewis	5/19/19	26-Aug	30,000	Herbicide Damage

¹ means the trial was lost due to poor initial establishment and/or to insurance/freeze.

² unless otherwise specified, herbicide damage applies to Fibermax varieties not resistant to auxin herbicides.

³ for all sampled locations a total of 6 linear ft. of each row was hand sampled. HVI testing performed as usual.

⁴ trial harvested using onboard cotton baller, three replications pooled into two round modules.

FINAL PLANT POPULATION BY VARIETY AT DRYLAND LOCATIONS

Table 3. Final plant population at dryland Replicated Agronomic Cotton Evaluation (RACE) Trial locations in 2019.

Variety	LBB_STATION plants/a	LBB_GLOVER plants/a	LBB_DRY plants/a	HOCKLEY_DRY plants/a	DAWSON_DRY plants/a
DP1646B2XF	13,508	12,636	17,647	26,065	36,819
DP1948B3XF	18,083	12,636	15,251	20,330	30,501
FM2334GLT	12,418	20,915	19,826	LOST	33,115
NG3930B3XF	13,072	16,122	16,558	26,792	34,205
NG3956B3XF	12,200	19,826	16,993	28,316	35,730
NG4777B2XF	11,983	22,222	20,479	30,640	38,344
NG4792XF	16,994	22,004	16,558	26,283	34,423
ST5707B2XF	10,240	22,222	19,826	29,551	38,562
WFU19XB9B3XF	16,558	15,033	18,301	24,541	34,641
Mean	13,952	18,180	17,938	26,565	35,149
STDEV	4,312	4,772	2,245	3,867	3,142
CV, %	30.9	26.3	12.5	14.6	8.9
p-value	0.3474	0.0032	0.0186	0.0121	0.0120
LSD	n.s.	3,241	1,713	3,000	2,327

FINAL PLANT POPULATION BY VARIETY AT IRRIGATED LOCATIONS

Table 4. Final plant population at irrigated Replicated Agronomic Cotton Evaluation (RACE) Trial locations in 2019.

Level	TERRY_IRR plants/a	LBB_IRR plants/a	HALFWAY_IRR plants/a	HALE_IRR plants/a
CP9598B3XF	21,351	22,004	3,486	9,368
DP1820B3XF	19,608	23,312	25,054	18,083
DP1845B3XF	23,312	27,451	23,965	18,954
FM2498GLT	25,708	31,373	32,680	36,383
FM2574GLT	27,887	32,898	23,965	38,780
NG3930B3XF	25,708	25,926	22,004	23,529
NG3956B3XF	21,133	22,658	32,026	19,608
NG4777B2XF	28,105	28,758	25,708	32,026
NG4792XF	25,272	29,412	25,054	27,887
ST5600B2XF	23,965	26,797	17,647	21,351
WFU19XB9B3XF	24,183	26,580	26,362	20,261
DP1549B2XF*	25,054			
Mean	24,274	27,015	23,450	24,203
STDEV	3,129	4,081	8,384	9,062
CV, %	12.9	15.1	35.8	37.4
p-value	0.0018	0.001	<0.001	<0.0001
LSD	1,874	2,440	3,829	3,424

*Grower Entry

Table 5. Lint yield, quality, and value results from the Lubbock County dryland RACE trial located at the Texas A&M AgriLife Research and Extension Center – Lubbock. Ranked by highest to lowest lint yield values. Poor final stand uniformity due to hail damage and poor initial germination.

LBB STATION								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
DP1948B3XF	271	0.39	4.0	1.19	82.6	31.1	56.7	154
NG3930B3XF	264	0.36	4.1	1.10	81.8	27.5	53.2	139
NG4792XF	255	0.38	4.7	1.07	81.4	29.7	49.4	126
NG4777B2XF	253	0.38	4.5	1.06	80.6	27.5	51.4	130
DP1646B2XF	213	0.42	4.3	1.17	81.3	28.2	56.1	120
WFU19XB9B3XF	193	0.37	4.0	1.16	81.8	32.3	54.0	104
NG3956B3XF	174	0.37	4.2	1.08	80.9	27.9	52.7	92
ST5707B2XF	156	0.36	4.2	1.13	81.7	30.9	52.4	81
FM2334GLT	133	0.40	4.5	1.14	81.7	30.5	55.1	73
Mean	212	0.38	4.3	1.12	81.5	29.5	53.5	113
STDEV	96	0.02	0.4	0.05	1.0	1.8	2.6	52
CV, %	45	5.27	8.3	4.33	1.2	6.1	4.8	46
p-value	0.6086	<0.0001	0.0768	<0.0001	0.3515	<0.0001	0.0003	0.6489
LSD	n.s.	0.01	n.s.	0.02	n.s.	0.6	1.5	n.s.

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

<https://www.cottoninc.com/cotton-production/ag-resources/cotton-farming-decision-aids/2019-upland-cotton-loan-calculator/>

Table 6. Lint yield, quality, and value results from the Lubbock County dryland RACE trial located at the Glover Farm, east of the Texas A&M AgriLife Research and Extension Center – Lubbock. Ranked by highest to lowest lint yield values. Hail damage July 10.

LBB GLOVER								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
NG3956B3XF	294	0.35	4.7	1.02	80.6	27.0	47.4	143
NG3930B3XF	265	0.35	4.5	1.05	80.7	26.0	44.2	117
DP1948B3XF	244	0.37	4.7	1.11	81.3	30.0	52.6	128
NG4792XF	242	0.35	4.7	1.00	79.2	28.3	43.7	106
NG4777B2XF	236	0.34	4.5	1.02	79.5	26.4	44.8	106
FM2334GLT	235	0.37	4.8	1.05	79.7	27.0	49.5	116
WFU19XB9B3XF	226	0.34	4.7	1.12	81.6	29.2	49.2	112
ST5707B2XF	198	0.34	4.8	1.04	80.1	28.7	46.0	91
DP1646B2XF	181	0.37	4.6	1.08	79.0	25.9	50.6	91
Mean	236	0.35	4.7	1.05	80.2	27.6	47.5	112
STDEV	53	0.01	0.2	0.04	1.2	1.7	3.8	29
CV, %	22	4.10	3.9	3.92	1.5	6.1	8.1	26
p-value	0.2904	0.00	0.3001	<0.0001	0.0162	0.0009	0.0154	0.4528
LSD	n.s.	0.01	n.s.	0.02	0.9	1.0	2.9	n.s.

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

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Table 7. Lint yield, quality, and value results from the Hockley County dryland RACE trial. Cooperator Danny Dukatnik. Ranked by highest to lowest lint yield values. Trial was replanted June 11. Fibermax 2334 lost due to dicamba injury.

HOCKLEY								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
NG3930B3XF	382	0.36	4.8	1.11	81.4	28.5	53.0	203
NG4777B2XF	343	0.34	4.7	1.11	82.2	30.9	50.0	172
DP1646B2XF	341	0.34	4.9	1.07	82.1	28.7	50.6	174
ST5707B2XF	330	0.34	4.9	1.09	81.0	28.8	51.0	170
NG4792XF	307	0.33	4.9	1.14	82.5	31.4	49.5	153
WFU19XB9B3XF	299	0.33	5.0	1.07	81.4	30.0	49.1	146
DP1948B3XF	276	0.32	4.6	1.08	80.8	27.9	50.9	141
NG3956B3XF	222	0.36	4.8	1.11	81.2	30.2	50.7	113
Mean	312	0.34	4.8	1.10	81.6	29.6	50.6	159
STDEV	72	0.03	0.2	0.05	1.3	1.9	2.7	42
CV, %	23	7.36	4.4	4.67	1.6	6.4	5.4	27
p-value	0.1910	0.67	0.5113	0.7267	0.7544	0.2136	0.8286	0.2841
LSD	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

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Table 8. Lint yield, quality, and value results from the Dawson County dryland RACE trial located at the Agricultural Complex for Advanced Research and Extension Systems (Ag-CARES) in Lamesa, TX. Ranked by highest to lowest lint yield values.

AGCARES								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
NG4792XF	270	0.38	4.4	1.02	79.1	26.4	47.2	127
FM2334GLT	246	0.39	4.0	1.03	77.8	23.3	46.7	115
WFU19XB9B3XF	223	0.36	4.2	1.05	78.5	24.7	46.4	104
ST5707B2XF	218	0.37	4.6	1.03	80.4	26.2	47.9	104
NG3930B3XF	210	0.35	3.8	1.03	79.5	23.3	45.9	96
NG3956B3XF	207	0.34	4.1	1.01	79.1	25.1	43.4	90
NG4777B2XF	196	0.35	3.7	0.98	76.6	20.6	43.2	85
DP1646B2XF	186	0.40	4.1	1.03	77.7	23.6	47.9	90
DP1948B3XF	176	0.38	4.3	1.09	80.5	28.3	51.6	91
Mean	215	0.37	4.1	1.03	78.8	24.6	46.7	100
STDEV	49	0.02	0.3	0.03	1.3	2.2	2.8	24
CV, %	23	5.5	6.7	3.1	1.7	9.1	5.9	24
p-value	0.4120	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.4506
LSD	n.s.	0.01	0.09	0.02	0.5	0.8	1.6	n.s.

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, $p < 0.05$).

<https://www.cottoninc.com/cotton-production/ag-resources/cotton-farming-decision-aids/2019-upland-cotton-loan-calculator/>

Table 9. Lint yield, quality, and value results from the Lubbock County dryland RACE trial. Cooperator Cole Hamilton. Ranked by highest to lowest lint yield values. Some localized 2,4-D injury noted. Cooperator used a round module cotton stripper. Three replications pooled into two modules and weighed in the field; no statistical analysis available for lint yield.

LBB DRY								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
WFU19XB9B3XF	553	0.37	4.9	1.13	82.2	30.9	55.1	304
DP1948B3XF	497	0.38	4.6	1.13	82.5	31.7	56.2	279
DP1646B2XF	491	0.41	4.7	1.11	80.0	28.8	55.1	271
NG3930B3XF	472	0.38	4.6	1.07	81.8	27.0	51.6	243
ST5707B2XF	465	0.36	5.0	1.10	82.8	33.3	50.4	234
FM2334GLT	464	0.39	4.7	1.11	81.3	31.6	55.4	253
NG4777B2XF	435	0.38	4.8	1.04	80.3	27.6	49.7	216
NG3956B3XF	435	0.36	4.5	1.04	81.0	28.2	50.4	222
NG4792XF	391	0.39	4.9	1.05	81.7	30.0	51.6	202
Mean	467	0.38	4.7	1.08	81.5	29.9	52.9	247
STDEV	46	0.01	0.2	0.04	1.1	2.2	2.6	33
CV, %	10	3.9	3.5	3.4	1.3	7.5	4.9	13
p-value	N/A	0.0006	0.0041	0.002	0.0211	0.0016	<0.0001	N/A
LSD	N/A	0.01	0.08	0.02	0.6	0.9	0.6	N/A

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)
 STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, $p < 0.05$). N/A (not available).

<https://www.cottoninc.com/cotton-production/ag-resources/cotton-farming-decision-aids/2019-upland-cotton-loan-calculator/>

Table 10. Lint yield, quality, and value results from the Lubbock County irrigated RACE trial. Cooperator Eddie Speer. Ranked by highest to lowest lint yield values. Hail damage July 10.

LBB IRR								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
CP9598B3XF	1504	0.41	4.9	1.15	82.4	31.5	56.2	845
DP1820B3XF	1297	0.39	4.9	1.18	83.0	34.1	56.8	736
DP1845B3XF	1164	0.38	4.7	1.16	82.1	32.8	52.2	607
NG3930B3XF	1118	0.36	4.3	1.12	82.3	29.9	51.4	575
FM2498GLT	1073	0.39	4.7	1.14	82.7	31.8	56.1	602
FM2574GLT	1056	0.40	4.7	1.21	83.2	34.2	55.5	585
NG4777B2XF	990	0.38	4.7	1.13	82.2	31.6	53.3	529
NG3956B3XF	983	0.37	4.7	1.11	82.1	29.4	49.9	489
NG4792XF	863	0.38	4.9	1.08	81.9	32.1	50.6	437
ST5600B2XF	823	0.40	5.1	1.11	82.4	31.6	50.4	414
WFU19XB9B3XF	621	0.36	4.6	1.19	83.2	33.8	52.4	326
Mean	1045	0.38	4.7	1.15	82.5	32.1	53.2	559
STDEV	284	0.02	0.3	0.05	0.8	1.7	2.7	167
CV, %	27	4.53	6.0	4.01	1.0	5.4	5.0	30
p-value	0.0024	<0.0001	0.0824	0.0005	0.4294	<0.0001	<0.0001	0.0004
LSD	177	0.01	n.s.	0.03	n.s.	0.8	1.1	95

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

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Table 11. Lint yield, quality, and value results from the Hale County irrigated RACE trial located at the Texas A&M AgriLife Research and Extension Center –Halfway. Ranked by highest to lowest lint yield values. Dicamba injury to Fibermax varieties noted. CP9598 showed poor emergence, refer to plant population table.

HALE HALFWAY								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
FM2498GLT	1100	0.40	4.6	1.11	82.0	30.0	53.0	584
NG4792XF	963	0.37	4.7	1.10	83.0	31.4	49.4	476
NG3930B3XF	943	0.36	4.2	1.15	83.8	29.6	50.7	478
NG4777B2XF	935	0.37	4.7	1.11	82.9	30.7	49.9	467
FM2574GLT	895	0.38	4.2	1.17	82.0	31.2	55.3	494
NG3956B3XF	880	0.36	4.4	1.10	82.2	29.0	49.8	439
DP1820B3XF	804	0.38	4.5	1.16	82.8	32.3	51.5	415
DP1845B3XF	801	0.37	4.1	1.20	82.7	30.8	52.3	419
WFU19XB9B3XF	779	0.37	4.2	1.13	83.4	31.8	48.8	380
ST5600B2XF	763	0.34	3.9	1.20	83.0	31.5	51.0	389
CP9598B3XF	515	0.37	3.4	1.16	82.6	30.4	47.8	248
Mean	853	0.37	4.3	1.14	82.8	30.8	50.9	435
STDEV	158	0.02	0.4	0.04	0.7	1.2	2.4	91
CV, %	19	4.45	9.5	3.31	0.8	3.9	4.7	21
p-value	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0044	0.0004	<0.0001
LSD	69	0.01	0.1	0.01	0.4	0.8	1.4	42

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)
 STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

<https://www.cottoninc.com/cotton-production/ag-resources/cotton-farming-decision-aids/2019-upland-cotton-loan-calculator/>

Table 12. Lint yield, quality, and value results from the Hale County irrigated RACE trial. Cooperator Michael Looney. Ranked by highest to lowest lint yield values. Intended as an irrigated trial, managed as dryland.

HALE IRR								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
ST5600B2XF	275	0.27	4.4	1.09	81.4	28.6	51.1	140
DP1845B3XF	263	0.24	3.7	1.15	79.1	29.3	48.4	129
NG4792XF	231	0.23	3.8	1.06	80.0	29.1	44.7	106
WFU19XB9B3XF	228	0.23	4.0	1.13	81.0	29.6	50.9	117
FM2498GLT	212	0.25	4.2	1.06	80.2	28.2	50.7	108
FM2574GLT	205	0.24	4.0	1.08	79.0	28.0	51.1	108
DP1820B3XF	201	0.26	3.8	1.12	80.8	30.0	52.4	105
NG3930B3XF	199	0.22	3.5	1.10	80.3	29.4	46.0	91
NG3956B3XF	193	0.23	3.5	1.09	82.3	30.3	45.2	87
NG4777B3XF	185	0.23	3.6	1.05	78.1	26.8	46.1	85
CP9598B3XF	120	0.24	4.0	1.12	81.0	28.9	52.7	63
Mean	216	0.24	3.9	1.09	80.1	28.7	49.3	107
STDEV	71	0.02	0.4	0.04	1.4	1.2	3.6	40
CV, %	33	10.3	9.3	3.35	1.7	4.1	7.2	37
p-value	0.9519	0.9394	0.3039	0.0380	0.0937	0.1357	0.2937	0.9719
LSD	n.s	n.s	n.s	0.02	n.s	n.s	n.s	n.s

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)
 STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

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Table 13. Lint yield, quality, and value results from the Terry County irrigated RACE trial. Cooperators Clay and David Lewis. Ranked by highest to lowest lint yield values. Significant dicamba injury to Fibermax varieties noted. Center pivot, light water.

TERRY IRR								
Variety	Lint Yield lb/a	Turnout %	MIC	Length in.	Uniformity %	Strength g/tex	Loan Value cents/lb	Lint Value \$/a
ST5600B2XF	369	0.39	5.0	1.06	81.3	30.2	49.7	185
CP9598B3XF	342	0.42	4.9	1.05	80.0	27.5	50.1	172
NG3956B3XF	336	0.37	4.5	1.03	80.4	27.5	48.5	164
DP1820B3XF	319	0.40	4.6	1.10	79.7	28.9	52.2	166
NG4792XF	313	0.40	4.6	1.02	80.4	29.6	46.4	145
NG4777B2XF	311	0.39	4.4	1.01	78.2	23.6	45.5	141
NG3930B3XF	308	0.38	4.3	1.05	80.9	26.2	49.9	154
DP1549B2XF	301	0.39	4.5	1.02	80.3	28.4	46.0	138
WFU19XB9B3XF	300	0.37	4.5	1.11	81.5	30.3	49.3	148
DP1845B3XF	289	0.38	4.1	1.12	80.8	31.4	52.4	151
FM2498GLT	129	0.39	4.4	1.10	80.3	28.6	50.0	64
FM2574GLT	100	0.41	4.4	1.10	79.6	28.7	53.0	53
Mean	285	0.39	4.5	1.06	80.3	28.4	49.4	140
STDEV	92	0.02	0.2	0.04	1.0	2.4	3.1	47
CV, %	32	3.9	5.4	4.18	1.2	8.3	6.2	34
p-value	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0055	0.0004
LSD	46	0.01	0.1	0.02	0.5	1.2	2.0	26

Loan value calculated using the Cotton Incorporated Upland Loan Calculator Program (\$52.0 cents/lb base for 41 color, 4 leaf, 34 staple)

STDEV (standard deviation). CV (coefficient of variation). LSD (least significant difference, p <0.05).

<https://www.cottoninc.com/cotton-production/ag-resources/cotton-farming-decision-aids/2019-upland-cotton-loan-calculator/>



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