

W3FE Innovation Trial

Grower Cooperator:	Roland Zamora	Planting Date:	5/22/2020
Trial Cooperator:	Kerry Siders	Seed Treatments:	TriO premium fungicides, insecticides, nematicides
PhytoGen CDS:	Ben Benton		
Location:	Sundown, TX		
Replicates:	3	Moist. @ planting:	Good
Plot Size:	8 rows	Soil Temp @ planting:	79
Row Spacing:	40"	Seed/Acre:	45,000
Beds:	none	GPS:	33.3493
Previous crop(s):	cotton	Elevation:	3,480
Soil type:	Acuff loam	Harvest Date:	11/11/2020
Irrigation:	drip		
Planter size:	8 row		



Sorted by lint value

Variety	Lint Yield lbs/A	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 332 W3FE (PX3D32)	1,250	36.8%	4.63	1.14	36.5	32.8	82.4	21	1	0.5675	709.52
PHY 443 W3FE (PX3D43)	1,239	36.9%	4.65	1.08	34.6	30.1	82.5	21	1	0.5535	685.79
PHY 400 W3FE	1,189	38.1%	4.11	1.10	35.2	32.1	80.3	21	1	0.5555	660.62
PHY 300 W3FE	1,181	37.0%	4.26	1.08	34.6	29.7	80.6	21	1	0.5515	651.54
PHY 350 W3FE	1,152	35.1%	4.40	1.12	35.8	30.0	82.5	21	1	0.5655	651.19
PHY 394 W3FE	1,076	34.9%	3.94	1.15	36.8	30.0	80.4	21	2	0.5700	613.21
PX 2C14 W3FE	1,039	34.3%	4.04	1.10	35.2	30.0	81.2	21	2	0.5540	575.74
PHY 480 W3FE	1,041	37.2%	4.09	1.10	35.2	29.9	82.5	21	1	0.5520	574.63
PHY 320 W3FE	1,040	35.4%	4.18	1.09	34.9	29.3	81.7	21	1	0.5520	574.16
PHY 500 W3FE	898	37.5%	3.87	1.07	34.2	31.0	81.0	21	1	0.5395	484.66
Mean	1,111	36.33	4.22	1.103	35.3	30.49	81.51		1.2	0.5561	618.11
LSD	ns										ns
CV (%)	12.87										12.82

Sorted by lint value (see above)

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Node of 1st Fruiting Branch (NFFB)	Final Plant Height (in)	Final Total Nodes	Nodes Above Cracked Boll (NACB)	Early Vigor (in/internode) *	Seasonal Vigor (in/internode) **	# Root Knot Nematodes (RKN) per 500cc @ Harvest	Only Juvenile RKN found. No Adult RKN or reniform were present (all 3 replications of 4 varieties were sampled)
PHY 332 W3FE (PX3D32)	41,756	1.67	6.9	21.2	17.4	6.5	0.65	1.22	0	
PHY 443 W3FE (PX3D43)	36,851	1.67	6.9	22.3	18.0	6.3	0.69	1.24	8	
PHY 400 W3FE	37,614	2.33	6.3	20.2	18.5	6.7	0.67	1.10	not sampled	
PHY 300 W3FE	34,125	2.33	6.3	23.8	17.5	7.0	0.68	1.35	18	
PHY 350 W3FE	38,159	2.00	6.2	21.3	17.8	6.4	0.69	1.19	not sampled	
PHY 394 W3FE	35,978	1.67	7.4	20.2	18.7	6.5	0.69	1.08	7	
PX 2C14 W3FE	38,965	1.98	7.4	20.1	19.1	7.1	0.68	1.05	not sampled	
PHY 480 W3FE	41,430	1.33	7.0	21.1	17.8	6.1	0.70	1.18	not sampled	
PHY 320 W3FE	41,320	1.50	6.8	21.2	17.6	6.7	0.71	1.20	not sampled	
PHY 500 W3FE	38,704	1.83	7.3	23.2	18.6	6.5	0.74	1.25	not sampled	
Mean	38,595	1.83	6.87	21.45	18.11	6.58	0.69	1.19	8.3	
LSD	ns	0.06	0.2	ns	0.6	ns	ns	0.08		
CV (%)	11.30	14.22	3.00	6.83	3.24	10.36	8.58	7.09		

Values in bold are best within each column; Values that are shaded grey are not significantly different from the best value in each column.

* Height-to-Node ratio from cotyledonary node to node of first fruiting branch

** Height-to-Node ratio from cotyledonary node to terminal node

W3FE Innovation Trial



Grower Cooperator: **Steven Shilling**
 Trial Cooperator: **John Thobe - IPM Agent**
 PhytoGen CDS: **Ben Benton**
 Location: **Bovina, TX**
 Replicates: **3**
 Plot Size: **8 rows**
 Row Spacing: **30"**
 Beds: **flat**
 Previous crop: **wheat**
 Soil type: **Olton clay loam**
 Irrigation: **Pivot (8" applied)**
 Planter size: **16 row**

Planting Date: **5/20/2020**
 Seed Treatments: **TRIO premium fungicides, insecticides, nematicides**
 Seed/Acre: **51,000**
 GPS: **34.4074**
 Elevation: **-102.8353**
 Harvest Date: **11/4/2020**

Sorted by lint value

Variety	Lint Yield (lbs/ac)	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 394 W3FE	678	31.1%	3.52	1.11	35.5	27.7	80.3	21, 21, 21	2	0.5625	381.57
PX 3D32 W3FE	709	34.2%	3.77	1.05	33.6	28.2	80.9	21, 21, 21	1	0.5345	379.06
PHY 210 W3FE	736	35.9%	4.07	1.03	33.0	26.0	80.9	21, 21, 21	1	0.5150	378.86
PHY 350 W3FE	652	30.7%	3.63	1.08	34.6	28.2	81.8	21, 21, 21	1	0.5510	359.49
PX 3D43 W3FE	713	34.2%	3.59	1.04	33.3	29.1	81.0	22, 22, 22	1	0.5030	358.69
PHY 250 W3FE	681	32.3%	3.83	1.07	34.2	25.7	80.2	21, 21, 21	1	0.5075	345.82
PHY 320 W3FE	640	31.4%	3.57	1.05	33.6	28.2	81.3	22, 22, 22	2	0.5255	336.47
PX 2C14 W3FE	669	32.7%	3.37	1.03	33.0	28.6	80.4	11, 11, 11	2	0.4680	312.83
Mean	685	32.81	3.67	1.058	33.86	27.71	80.85		1.4	0.5209	356.60
LSD	ns										ns
CV (%)	7.80										8.22

Sorted by lint value (see above)

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Node of 1st Fruiting Branch (NFFB)	Final Plant Height (in)	Final Total Nodes	Nodes Above White Flower (NAWF)	Nodes Above Cracked Boll (NACB)	Seasonal Vigor (in/internode) *	Storm Tolerance (1=tight; 5=loose)
PHY 394 W3FE	27,667	3.3	8.6	17.5	16.6	6.8	11.0	1.07	1.3
PX 3D32 W3FE	26,400	2.3	7.4	20.7	16.0	7.3	9.3	1.30	2.3
PHY 210 W3FE	27,200	2.7	8.6	18.6	17.4	5.3	11.6	1.07	1.3
PHY 350 W3FE	21,400	4.0	6.6	21.3	16.2	6.8	9.2	1.32	2.8
PHY 250 W3FE	24,600	3.0	7.5	18.9	15.5	6.5	10.6	1.23	1.9
PX 3D43 W3FE	27,267	3.0	8.4	22.9	14.9	6.8	10.5	1.61	3.0
PHY 320 W3FE	26,867	2.7	6.8	20.9	16.8	7.2	9.2	1.25	2.5
PX 2C14 W3FE	24,933	2.3	7.9	20.5	17.8	7.5	11.1	1.15	1.6
Mean	25,792	2.92	7.72	20.17	16.40	6.79	10.33	1.25	2.06
LSD	ns	ns	0.6	1.2	ns	ns	0.6	0.16	0.3
CV (%)	11.88	26.32	6.81	5.67	10.41	10.58	5.03	11.68	14.52

Values in bold are best within each column; Values that are shaded grey are not significantly different from the best value in each column.

* Height-to-Node ratio from cotyledonary node to terminal node

W3FE Innovation Trial

Grower Cooperator: **Michael Harrell**
 PhytoGen CDS: **Ben Benton**
 Location: **Halfway, TX**
 Replicates: **3**
 Plot Size: **5 rows**
 Row Spacing: **32"**
 Beds: **flat**
 Previous crop(s): **sorghum (no-till)**
 Soil type: **Pullman Clay Loam**
 Equipment size: **10 row**
 Irrigation: **DRIP**

Planting Date: **5/22/2020**
 Seed Treatments: **TRiO premium fungicides, insecticides, nematicides**
 Moist. @ planting: **good**
 Seed/Acre: **52,000**
 GPS Lat: **34.2024**
 GPS Long: **-101.9095**
 Elevation: **3,500**
 Harvest Date: **11/9/2020**



Sorted by lint value

Variety	Lint Yield Lbs/A	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 210 W3FE	1,669	33.9%	3.43	1.17	37.4	31.2	83.2	21	1	0.5265	878.57
PHY 332 W3FE (PX3D32)	1,636	33.7%	3.06	1.17	37.4	31.1	81.3	21	1	0.5075	830.61
PHY 443 W3FE (PX3D43)	1,538	34.0%	3.12	1.17	37.4	31.5	82.9	11	1	0.5075	780.72
PHY 250 W3FE	1,515	32.6%	3.07	1.20	38.4	30.8	83.6	11	1	0.5080	769.46
PHY 320 W3FE	1,452	32.3%	3.10	1.16	37.1	29.0	83.1	11	2	0.5045	732.71
PHY 394W3FE	1,505	30.7%	2.98	1.20	38.4	29.2	80.9	21	3	0.4740	713.43
PX 2C14 W3FE	1,464	30.8%	2.98	1.17	37.4	30.4	82.9	21	1	0.4795	701.93
PHY 350 W3FE	1,308	31.6%	2.97	1.17	37.4	28.9	81.6	11	1	0.4770	623.96
Mean	1,511	32.46	3.09	1.176	37.6	30.26	82.44		1.4	0.4981	753.92
LSD	61										31.00
CV (%)	3.76										3.80

Values in bold are highest within each column; Values that are shaded grey are not significantly different from the highest value within each column.

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Final Plant Height (in)	Storm Tolerance (1=tight; 5=loose)
PHY 210 W3FE	24,883	2.2	25.3	1.8
PHY 332 W3FE (PX3D32)	28,617	1.7	30.3	2.7
PHY 443 W3FE (PX3D43)	26,883	1.7	33.3	3.3
PHY 250 W3FE	23,583	2.5	28.7	2.5
PHY 320 W3FE	25,467	2.5	29.3	2.8
PHY 394W3FE	28,633	1.2	27.0	1.5
PX 2C14 W3FE	26,100	1.7	28.3	1.8
PHY 350 W3FE	19,750	2.3	32.7	3.2
Mean	25,490	1.96	29.38	2.46
LSD	2,760	0.3	0.9	0.2
CV (%)	10.09	16.24	2.72	8.45

W3FE Innovation Trial

Grower Cooperator: **Glen Kirkland**
 PhytoGen CDS: **Ben Benton**
 Location: **Hart Camp, TX**
 Replicates: **3**
 Plot Size: **6 rows**
 Row Spacing: **30"**
 Beds: **flat**
 Previous crop(s): **corn**
 Soil type: **Portales Loam**
 Equipment size: **12 row 6 row stripper**
 Irrigation: **pivot**
 Irrigation capacity: **300 gal/min - split 60 ac corn & 60 ac cotton (cotton got 8" irrigation + 1.5" rainfall)**

Planting Date: **5/9/2020**
 Seed Treatments: **TRIO premium fungicides, insecticides, nematicides**
 Moist. @ planting: **good**
 Soil Temp @ planting: **62 @ 4" / 64 @ 2"**
 Seed/Acre: **45,000**
 GPS Lat: **34.0303**
 GPS Long: **-102.1019**
 Elevation: **3,525**
 Harvest Date: **10/16/2020**



Sorted by lint value

Variety	Lint Yield Lbs/A	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 332 W3FE (PX3D32)	1,180	34.4%	4.12	1.16	37.1	31.9	83.6	21	2	0.5735	676.73
PHY 443 W3FE (PX3D43)	1,150	35.7%	4.44	1.13	36.2	33.4	83.7	21	2	0.5690	654.56
PX 2C14 W3FE	1,068	34.0%	3.99	1.11	35.5	33.2	82.5	21	1	0.5685	607.23
PHY 394W3FE	1,079	32.8%	3.95	1.19	38.1	33.0	82.5	21	4	0.5585	602.39
PHY 350 W3FE	1,044	34.7%	4.02	1.14	36.5	31.5	83.2	21	1	0.5690	593.88
PHY 320 W3FE	1,016	34.3%	3.92	1.11	35.5	31.5	82.4	21	1	0.5680	577.28
PHY 210 W3FE	1,014	35.8%	4.61	1.12	35.8	31.7	82.4	21	2	0.5675	575.54
PHY 250 W3FE	911	34.1%	4.52	1.13	36.2	31.7	83.0	21	2	0.5685	517.83
Mean	1,058	34.45	4.20	1.136	36.35	32.24	82.91		1.9	0.5678	600.68
LSD	68										39.00
CV (%)	6.01										6.00

Values in bold are highest within each column; Values that are shaded grey are not significantly different from the highest value within each column.

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Final Plant Height (in)	Nodes Above Cracked Boll (NACB)	Storm Tolerance (1=tight; 5=loose)
PHY 332 W3FE (PX3D32)	36,021	1.3	19.7	4.2	2.8
PHY 443 W3FE (PX3D43)	31,646	1.3	20.3	4.0	3.5
PX 2C14 W3FE	30,334	1.5	18.3	2.5	1.7
PHY 394W3FE	35,292	1.0	15.0	4.8	1.0
PHY 350 W3FE	23,771	2.3	20.7	4.4	3.0
PHY 320 W3FE	31,500	2.0	18.3	4.0	2.7
PHY 210 W3FE	33,396	1.7	15.7	2.5	1.3
PHY 250 W3FE	31,500	2.0	17.3	3.0	1.7
Mean	31,683	1.65	18.17	3.67	2.21
LSD	3,909	0.2	0.8	1.0	0.3
CV (%)	11.50	11.72	4.05	24.26	10.91

W3FE Innovation Trial

Grower Cooperator: **Freddie Brown**
 Trial Cooperator: **Bryson Vadder/Daniel Olson**
 PhytoGen CDS: **Ben Benton**
 Location: **Morton, TX**
 Replicates: **3**
 Plot Size: **8 rows**
 Row Spacing: **40"**
 Beds: **yes**
 Previous crop(s): **cotton**
 Soil type: **Fine Sandy Loam**
 Irrigation: **pivot**
 Planter size: **16 row**

Planting Date: **5/18/2020**
 Seed Treatments: **TRiO premium fungicides, insecticides, nematicides**
 Seed/Acre: **37,000**
 GPS: **33.7005**
 Elevation: **-102.8482**
 Harvest Date: **11/2/2020**



Sorted by lint value

Variety	Lint Yield (lbs/ac)	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 480 W3FE	570	32.4%	3.19	1.11	35.4	30.2	82.3	11, 11, 11	1.3	0.5092	291.25
PHY 394 W3FE	551	30.9%	3.18	1.18	37.7	31.6	80.9	11, 21, 21	2.0	0.5012	278.63
PHY 443 W3FE (PX3D43)	502	32.2%	3.51	1.12	35.7	31.4	82.7	11, 21, 21	1.0	0.5340	269.26
PHY 400 W3FE	508	34.3%	3.26	1.13	36.3	31.8	81.7	11, 21, 31	1.0	0.5238	266.01
PHY 332 W3FE (PX3D32)	480	31.9%	3.33	1.15	36.7	31.2	82.2	21, 11, 11	1.7	0.5242	252.86
PX 2C14 W3FE	499	29.4%	3.21	1.11	35.4	31.0	82.7	11, 21, 21	1.3	0.4983	249.32
PHY 320 W3FE	473	30.7%	3.30	1.12	35.7	30.0	82.5	21, 21, 11	1.7	0.5137	244.54
PHY 300 W3FE	422	33.0%	3.20	1.10	35.2	30.2	82.5	21, 21, 11	1.0	0.5055	213.79
PHY 350 W3FE	425	30.3%	3.06	1.13	36.2	30.4	81.8	11, 21, 21	1.0	0.4813	205.05
PHY 500 W3FE	429	28.9%	2.68	1.12	35.8	31.0	81.3	11, 21, 21	1.7	0.4437	191.33
Mean	486	31.40%	3.19	1.125	36.01	30.86	82.05		1.37	0.5035	246.20
LSD	35	ns	ns	0.02	0.64	ns	0.6		0.4	ns	ns
CV (%)	7.70	6.8	13.69	1.42	1.42	2.71	0.77		29.2	10.0	16.95

Sorted by lint value (see above)

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Final Plant Height (in)	Storm Tolerance (1=tight; 5=loose)	# Root Knot Nematodes (RKN) per 500cc @ Harvest
PHY 480 W3FE	26,929	1.5	21.7	2.7	not sampled
PHY 394 W3FE	28,128	1.0	17.3	1.2	10
PHY 443 W3FE (PX3D43)	28,020	1.5	22.3	3.2	not sampled
PHY 400 W3FE	25,839	2.0	18.0	3.2	32 *
PHY 332 W3FE (PX3D32)	28,347	1.5	20.7	2.5	48
PX 2C14 W3FE	25,403	1.5	19.3	1.5	not sampled
PHY 320 W3FE	23,767	2.2	20.0	2.8	not sampled
PHY 300 W3FE	23,441	2.5	20.3	2.2	267
PHY 350 W3FE	21,151	2.0	21.3	3.2	27 *
PHY 500 W3FE	26,602	2.0	24.0	2.2	not sampled
Mean	25,763	1.77	20.50	2.45	99.1
LSD	1,436	0.1	1.2	0.3	ns
CV (%)	5.93	5.17	6.35	11.32	97.30

Values in bold are highest within each column; Values that are shaded grey are not significantly different from the best value in each column.

* Only 1 replication sampled for RKN on PHY350 & PHY400 - All 3 replications sampled on other 3 varieties.

W3FE Innovation Trial

Grower Cooperator: **Sowder**
 Trial Cooperator: **Justin Bellar**
 PhytoGen CDS: **Ben Benton**
 Location: **Sudan, TX (Enochs)**
 Replicates: **3**
 Plot Size: **6 rows**
 Row Spacing: **40"**
 Beds: **yes**
 Previous crop(s): **cotton**
 Soil type: **Amarillo fine sandy loam**
 Irrigation: **Dryland**
 Planter size: **12 row**

Planting Date: **5/22/2020**
 Seed Treatments: **TRiO premium fungicides,
 insecticides, nematicides**

Seed/Acre: **26,500**
 GPS: **33.912**
 Elevation: **-102.6781**
 Harvest Date: **11/13/2020**



Sorted by lint value

Variety	Lint Yield lbs/A	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 320 W3FE	307	36.6%	4.34	1.05	33.6	28.0	81.5	21	1	0.5345	163.76
PHY 332 W3FE (PX3D32)	306	35.1%	4.29	1.08	34.6	27.7	81.4	22	1	0.5360	163.50
PHY 300 W3FE	324	37.0%	4.36	0.99	31.7	26.0	80.5	21	1	0.4970	161.57
PHY 443 W3FE (PX3D43)	313	35.7%	4.58	1.02	32.6	27.4	80.8	21	1	0.5145	161.35
PHY 350 W3FE	300	36.1%	4.17	1.03	33.0	26.6	79.5	21	1	0.5105	153.26
PHY 400 W3FE	295	36.3%	4.37	1.03	33.0	27.9	79.7	21	1	0.5100	150.65
Mean	299	36.10	4.35	1.033	33.1	27.27	80.57		1.0	0.5171	154.36
LSD	ns										ns
CV (%)	7.79										8.01

Sorted by lint value (see above)

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)
PHY 320 W3FE	19,491	2.3
PHY 332 W3FE (PX3D32)	23,416	1.7
PHY 300 W3FE	20,522	2.7
PHY 443 W3FE (PX3D43)	21,939	1.8
PHY 350 W3FE	20,061	2.2
PHY 400 W3FE	22,023	2.2
Mean	21,387	2.03
LSD	ns	0.2
CV (%)	7.11	9.00

Values in bold are best within each column; Values that are shaded grey are not significantly different from the best value in each column.

W3FE Module Trial

Grower Cooperator: **Ricky Yantis**
 Trial Cooperator: **Justin Bellar**
 PhytoGen CDS: **Ben Benton**
 Location: **Sudan, TX**
 Replicates: **1 (Module plot)**
 Plot Size: **various**
 Row Spacing: **40" / 2 in 1 out skip row**
 Beds: **yes**
 Previous crop(s): **cotton, cover crop rye**
 Soil type: **Amarillo/Zita fine sandy loam**
 Irrigation: **pivot**
 Planter size: **8 row (6 planted rows)**

Planting Date: **5/11/2020**
 Seed Treatments: **TRiO premium fungicides, insecticides, nematicides**
 Seed/Acre: **35,000**
 GPS: **34.0933**
 Elevation: **3,687**
 Harvest Date: **11/4/2020**



Sorted by lint value

Variety	acres per variety	Lint Yield lbs/A	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PHY 400 W3FE	2.7	1,092	35.62%	3.8	1.10	35.2	30	81	11	2	0.5517	602.46
PHY 332 W3FE (PX3D32)	6.1	994	35.09%	3.7	1.10	35.2	30	81	11	1	0.5514	548.09
PHY 350 W3FE	5.5	709	30.26%	3.7	1.09	34.9	29	80	11	1	0.5475	388.18
PHY 443 W3FE (PX3D43)	5.5	637	29.59%	3.9	1.08	34.6	30	81	11	1	0.5439	346.46
PHY 250 W3FE	11.7	632	28.72%	3.7	1.09	34.9	28	81	11	1	0.5477	346.15
PHY 394 W3FE	6.6	521	25.32%	3.7	1.12	35.8	29	78	11	1	0.5570	290.20
PX 2C14 W3FE	8.0	557	28.01%	3.5	1.06	33.9	29	80	11	1	0.5188	288.97
Mean		735	30.37	3.71	1.091	34.9	29.30	80.30		1.1	0.5454	401.50

Sorted by lint value (see above)

Variety	Plant Population (#/ planted Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Storm Tolerance (1=tight; 5=loose)	Final Plant Height (in)	Avg Bale Wt	Avg Seed Wt	Bales
PHY 400 W3FE	29,250	1.5	3.0	21	492	585	6
PHY 332 W3FE (PX3D32)	27,700	1.5	2.5	24	505	606	12
PHY 350 W3FE	27,475	2.0	3.5	22	487	623	8
PHY 443 W3FE (PX3D43)	29,250	1.5	3.5	26	501	568	7
PHY 250 W3FE	29,000	2.0	2.5	22	493	613	15
PHY 394 W3FE	35,000	1.0	1.0	20	491	604	7
PX 2C14 W3FE	28,800	1.5	1.5	22	495	620	9
Mean	29,496	1.57	2.5	22.4	495	603	

Values in bold are highest or best within each column

Plot was sampled for root knot nematodes in June and November, however, none were found.

Fiber data from commercially ginned bales at Texas Producers COOP in Sudan, TX

W3FE Innovation Trial

Grower Cooperator: **Eric Vaughan**
 Trial Cooperator: **Eric Leach**
 PhytoGen CDS: **Ben Benton**
 Location: **Lariat, TX**
 Replicates: **1**
 Plot Size: **8 rows**
 Row Spacing: **30"**
 Beds: **flat**
 Previous crop(s): **Cotton/ terminated wheat cover**
 Soil type: **Amarillo/Arvana fine sandy loam**
 Irrigation: **DRIP**
 Planter size: **24 row**

Planting Date: **5/11/2020**
 Seed Treatments: **TRiO premium fungicides, insecticides, nematicides**
 Seed/Acre: **49,500**
 GPS: **34.3425**
 Elevation: **4,015**
 Harvest Date: **11/7/2020**



Sorted by lint value

Variety	Lint Yield (lbs/ac)	Turnout (%)	Micronaire	Length (inches/32's)		Strength (g/tex)	Uniformity (%)	Color Grades	Leaf Grade	Loan Value (\$/lb)	Lint Value (\$/A)
PX 2E05 W3FE	1,502	35.0%	4.02	1.06	33.9	33.8	81.8	21	1	0.5400	811.26
PHY 210 W3FE	1,309	34.0%	3.52	1.11	35.5	31.1	81.7	11	1	0.5675	742.82
PHY 332 W3FE (PX3D32)	1,382	34.1%	3.12	1.13	36.2	30.6	81.1	21	3	0.4970	686.96
PHY 443 W3FE (PX3D43)	1,375	33.8%	3.06	1.10	35.2	28.8	82.8	21	1	0.4865	669.10
PHY 250 W3FE	1,278	33.7%	3.38	1.12	35.8	30.2	81.5	21	1	0.5190	663.50
PX 2D18 W3FE	1,326	33.5%	3.13	1.12	35.8	28.8	80.3	21	2	0.4980	660.18
PHY 320 W3FE	1,319	33.0%	3.15	1.11	35.5	29.4	82.0	21	2	0.4990	658.36
PX 3E33 W3FE	1,248	32.5%	3.00	1.11	35.5	29.9	80.8	21	1	0.4985	622.26
PHY 394 W3FE	1,304	31.6%	2.84	1.15	36.8	30.4	80.3	21	3	0.4745	618.56
PHY 300 W3FE	1,268	34.6%	2.95	1.09	34.9	29.1	81.6	21	1	0.4610	584.41
PHY 350 W3FE	1,202	31.2%	2.87	1.11	35.5	27.5	80.9	21	3	0.4680	562.45
PX 2C14 W3FE	1,197	30.5%	2.84	1.10	35.2	29.6	82.0	21	2	0.4610	551.77
Mean	1,309	33.13%	3.16	1.109	35.5	29.93	81.40		1.8	0.4975	652.64

Sorted by lint value (see above)

Variety	Plant Population (#/Ac)	Vigor Rating (1=Excellent; 5=Very poor)	Node of 1st Fruiting Branch (NFFB)	Final Plant Height (in)	Final Total Nodes	Nodes Above White Flower (NAWF)	Nodes Above Cracked Boll (NACB)	Seasonal Vigor (in/internode)*	Storm Tolerance (1=tight; 5=loose)
PX 2E05 W3FE	31,500	2.0	8.2	23.4	18.2	0.4	2.2	1.29	1.0
PHY 210 W3FE	30,771	2.3	8.0	25.2	19.7	0.4	3.7	1.28	1.3
PHY 332 W3FE (PX3D32)	41,563	1.5	7.7	32.6	18.1	0.6	5.6	1.80	2.5
PHY 443 W3FE (PX3D43)	35,875	1.5	8.8	38.3	20.0	0.9	4.9	1.92	3.0
PHY 250 W3FE	32,813	2.3	7.6	28.6	19.1	0.5	4.0	1.50	2.3
PX 2D18 W3FE	33,250	1.5	7.4	26.8	17.2	0.4	3.9	1.56	1.5
PHY 320 W3FE	33,688	2.5	7.4	30.6	17.8	0.9	5.2	1.72	2.5
PX 3E33 W3FE	29,313	1.5	7.8	32.2	19.4	1.4	5.6	1.66	1.5
PHY 394 W3FE	36,313	1.0	8.8	27.0	19.5	0.8	4.7	1.38	1.0
PHY 300 W3FE	26,688	3.0	7.0	37.4	18.9	0.6	4.5	1.98	2.0
PHY 350 W3FE	31,063	2.0	6.9	37.3	19.2	1.2	6.0	1.94	3.0
PX 2C14 W3FE	34,125	1.3	9.1	28.5	19.4	0.7	4.0	1.47	1.7
Mean	33,080	1.87	7.89	30.66	18.87	0.73	4.53	1.63	1.94

Values in bold are best within each column.

* Height-to-Node ratio from cotyledonary node to terminal node