

2021 Official Variety Trial Results



Table OVT1. 2021 Tennessee Official Variety Trial details.

Location	Planting Date	Soil Type	Tillage	Irrigation
Gift	05/14/2021	Loring Silt Loam	No-Till	None
Grand Junction ¹	05/17/2021	Memphis Silt Loam	No-Till	None
Jackson ²	05/07/2021	Collins Silt Loam	No-Till	None
Milan ³	05/20/2021	Falaya Silt Loam	No-Till	None
Ridgely	05/13/2021	Reelfoot Silt Loam	No-Till	None

¹Ames Plantation Research and Education Center, Grand Junction, TN

²West Tennessee Research and Education Center, Jackson, TN

³Milan Research and Education Center, Milan, TN

Table OVT2. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 Official Variety Trials conducted near Gift, Grand Junction, Jackson, Milan and Ridgely, listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout [†] (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)						
1	AR 9371 B3XF	1496	a [‡]	44.4	d-h	4.7	b-e	1.18	n-q	31.0	opq	86.3	a-e
2	BX 2295 B3XF	1496	a	44.3	d-h	4.7	b-e	1.22	hij	31.0	opq	85.8	d-i
3	PX 1140A385-04 W3FE	1481	ab	47.0	a	4.8	bcd	1.18	opq	33.4	c-g	86.7	ab
4	PHY 400 W3FE	1474	abc	44.9	bcd	4.5	e-h	1.20	j-n	33.3	d-h	85.7	d-j
5	DP 2127 B3XF	1462	a-d	44.6	c-f	4.9	a	1.16	qr	31.4	m-q	86.1	b-g
6	ST 5091 B3XF	1459	a-e	43.3	k-n	4.0	m	1.20	k-o	31.0	opq	84.5	no
7	PX 1140A383-04 W3FE	1449	a-f	44.6	c-f	4.7	bcd	1.23	fgh	34.9	ab	86.4	a-d
8	DP 2115 B3XF	1440	a-g	44.9	bcd	4.7	bcd	1.17	pqr	31.7	j-p	85.0	j-n
9	ST 4990 B3XF	1430	a-h	40.6	r	4.3	i-l	1.24	efg	31.6	k-q	86.6	abc
10	DP 2038 B3XF	1424	a-i	46.9	a	4.8	abc	1.15	rs	32.0	i-m	84.2	o
11	ST 4550 GLTP	1397	a-j	45.4	b	4.7	b-e	1.17	pqr	32.9	e-i	85.7	e-j
12	PHY 332 W3FE	1389	a-j	42.4	p	4.4	h-l	1.24	e-g	33.2	d-h	85.1	i-n
13	NG 3195 B3XF	1382	b-k	43.8	h-l	4.5	f-i	1.17	pq	32.5	g-k	85.7	d-i
14	AMX 20B037 B3XF	1378	b-l	44.8	cde	4.7	b-e	1.19	l-p	35.2	a	86.4	a-e
15	PHY 443 W3FE	1375	b-l	43.1	mno	4.6	b-f	1.17	pqr	33.4	c-g	85.7	d-j
16	DG 3535 B3XF	1369	c-m	44.0	f-j	4.4	h-l	1.23	ghi	32.0	i-n	85.6	f-j
17	ST 4993 B3XF	1363	d-m	45.0	bc	4.8	bcd	1.20	j-n	34.0	bcd	86.4	a-d
18	NG 4190 B3XF	1358	d-m	43.9	g-l	4.4	g-k	1.22	h-k	31.6	l-q	86.3	a-f
19	PHY 390 W3FE	1356	d-m	44.3	d-h	4.4	g-k	1.20	k-o	33.7	c-f	84.8	k-o
20	DP 2141 B3XF	1351	e-m	43.6	i-m	4.7	b-e	1.21	i-l	34.3	abc	84.8	k-o
21	AR 9831 B3XF	1340	f-n	44.4	c-g	4.8	ab	1.19	m-p	32.6	g-j	84.5	mno
22	20R734 B3XF	1332	g-o	44.2	e-j	4.6	c-f	1.20	j-n	31.8	j-o	84.8	k-o
23	PX 1130A329-04 W3FE	1330	h-o	44.6	c-f	4.8	bcd	1.20	j-n	33.3	d-h	85.0	i-n
24	NG 4936 B3XF	1324	h-o	40.8	r	4.3	jkl	1.26	cde	31.2	m-q	86.8	a
25	NG 5150 B3XF	1318	i-o	42.8	nop	4.5	f-j	1.23	ghi	31.7	j-o	85.4	g-l
26	DG 3317 B3XF	1313	j-o	43.8	g-l	4.7	b-e	1.17	pqr	31.7	j-o	85.3	h-l
27	AR 9608 B3XF	1309	j-o	44.4	c-g	4.4	h-l	1.20	k-o	31.1	n-q	84.8	k-o
28	DP 1646 B2XF	1307	j-o	43.2	l-o	4.3	kl	1.28	ab	30.9	opq	85.4	g-l
29	BX 2298 B3XF	1296	j-o	42.8	nop	4.6	d-g	1.14	st	30.7	pqr	84.7	l-o
30	PX 4B08 W3FE	1295	j-o	44.3	d-h	4.8	ab	1.12	t	32.8	f-i	84.8	k-o
31	BX 2297 B3XF	1292	j-p	43.6	j-m	4.6	c-f	1.18	nop	30.0	r	85.0	j-n
32	DP 2012 B3XF	1277	k-q	42.4	p	4.3	i-l	1.22	hij	32.4	h-l	85.9	c-h
33	PHY 360 W3FE	1272	l-q	42.7	nop	4.4	g-k	1.18	nop	30.7	qr	84.4	no
34	DG 3456 B3XF	1262	m-q	43.9	g-k	4.2	l	1.20	j-n	30.9	o-r	85.3	h-m
35	DG 3555 B3XF	1261	m-r	41.4	q	3.8	n	1.27	bcd	33.8	cde	86.2	a-f
36	DG 3644 B3XF	1240	n-s	42.7	op	4.8	bcd	1.25	def	34.8	ab	85.9	c-h
37	DG 3520 B3XF	1226	o-s	40.7	r	3.7	n	1.30	a	33.2	d-h	86.7	ab
38	BX 2296 B3XF	1182	p-s	44.3	e-i	4.7	bcd	1.21	ijk	32.0	i-m	85.9	c-h
39	DP 2020 B3XF	1170	qrs	40.3	r	4.4	h-l	1.25	d-g	32.0	i-m	85.9	c-h
40	DG 3469 B3XF	1152	rs	41.5	q	4.5	f-j	1.21	i-m	31.7	j-o	85.4	g-k
41	NG 5711 B3XF	1141	s	41.6	q	4.4	h-l	1.28	bc	32.4	h-l	86.0	b-g
Average		1341		43.6		4.5		1.21		32.3		85.6	
LSD (p<0.05)		110		0.6		0.2		0.02		0.9		0.7	
CV (%)		12.71		2.20		4.41		2.06		3.31		0.96	

[‡]Means followed by the same letter are not significantly different (p=0.05).

[†]Turnout and fiber quality determined from ginning two 25 boll samples from two replicates at Gift, Grand Junction, Jackson, Milan and Ridgely. Tennessee AgResearch data of Raper et al. (2021).

Table OVT3. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 Official Variety Trial conducted in Gift, TN listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout [†] (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)
1	BX 2295 B3XF	1596 _a ¥	45.0	4.8	1.20	32.1	85.2
2	DP 2127 B3XF	1568 _{ab}	45.1	5.2	1.15	31.8	85.6
3	PX 1140A385-04 W3FE	1544 _{abc}	46.5	4.7	1.20	34.0	87.5
4	PHY 390 W3FE	1524 _{a-d}	45.0	4.6	1.19	33.9	84.0
5	PX 1140A383-04 W3FE	1519 _{a-e}	45.0	4.9	1.19	34.8	85.5
6	PHY 443 W3FE	1510 _{a-e}	43.7	4.9	1.17	35.0	85.2
7	PHY 400 W3FE	1481 _{a-f}	45.7	4.7	1.16	32.8	84.0
8	ST 4990 B3XF	1448 _{a-g}	41.6	4.5	1.25	32.3	85.9
9	AR 9371 B3XF	1445 _{a-g}	45.3	4.8	1.18	31.0	86.3
10	NG 4190 B3XF	1442 _{a-g}	45.2	4.7	1.21	31.7	85.7
11	PHY 332 W3FE	1411 _{b-h}	43.4	4.6	1.22	33.3	85.2
12	DP 2012 B3XF	1410 _{b-h}	42.2	4.5	1.21	32.9	85.5
13	DP 2115 B3XF	1401 _{b-i}	45.3	5.0	1.16	33.0	84.8
14	NG 3195 B3XF	1390 _{b-i}	44.0	4.3	1.21	32.9	86.7
15	AR 9608 B3XF	1373 _{c-j}	45.9	4.4	1.19	30.4	84.8
16	ST 4550 GLTP	1363 _{d-j}	45.3	4.7	1.19	34.1	85.9
17	NG 4936 B3XF	1359 _{d-j}	40.8	4.5	1.30	30.9	86.3
18	DP 2141 B3XF	1357 _{d-j}	44.1	4.6	1.24	35.6	85.7
19	PHY 360 W3FE	1341 _{e-k}	42.9	4.6	1.19	30.4	84.6
20	PX 1130A329-04 W3FE	1327 _{f-k}	44.8	4.9	1.19	33.3	84.8
21	ST 5091 B3XF	1307 _{f-l}	42.5	4.0	1.21	32.2	84.2
22	DG 3535 B3XF	1298 _{g-m}	43.3	4.6	1.22	33.0	85.5
23	BX 2297 B3XF	1281 _{g-m}	44.6	4.8	1.18	30.9	84.4
24	DP 2038 B3XF	1278 _{g-m}	46.4	4.9	1.17	33.0	84.2
25	DG 3456 B3XF	1276 _{g-m}	43.9	4.1	1.20	31.5	84.6
26	DP 2020 B3XF	1275 _{g-m}	40.3	4.5	1.23	32.6	85.7
27	20R734 B3XF	1257 _{h-m}	43.9	4.7	1.22	33.3	85.8
28	DP 1646 B2XF	1256 _{h-m}	42.9	4.2	1.30	31.7	85.6
29	NG 5150 B3XF	1239 _{h-n}	42.9	4.5	1.19	30.8	84.7
30	BX 2298 B3XF	1226 _{i-n}	42.9	4.6	1.14	30.8	84.3
31	PX 4B08 W3FE	1224 _{i-n}	44.9	5.1	1.10	33.3	83.6
32	ST 4993 B3XF	1201 _{j-o}	45.9	5.0	1.18	34.9	86.0
33	DG 3644 B3XF	1200 _{j-o}	42.1	4.8	1.25	36.0	85.1
34	DG 3317 B3XF	1170 _{k-o}	42.9	4.7	1.16	31.7	85.2
35	AR 9831 B3XF	1138 _{l-p}	42.7	4.8	1.18	33.1	85.1
36	AMX 20B037 B3XF	1137 _{l-p}	44.7	4.9	1.18	35.1	86.0
37	DG 3555 B3XF	1130 _{l-p}	40.9	3.7	1.27	33.7	86.5
38	NG 5711 B3XF	1125 _{m-p}	41.2	4.3	1.26	32.8	85.6
39	DG 3469 B3XF	1067 _{nop}	42.5	4.7	1.21	32.5	85.1
40	BX 2296 B3XF	1028 _{op}	42.9	4.5	1.24	32.8	86.7
41	DG 3520 B3XF	979 _p	39.6	3.6	1.31	34.2	86.6
Average		1315	43.7	4.6	1.20	32.8	85.3
LSD (p<0.05)		179					
CV (%)		9.71					

¥Means followed by the same letter are not significantly different (p=0.05).

[†]Turnout and fiber quality determined from ginning two 25 boll samples from the 1st and 2nd replicates.

Tennessee AgResearch data of Raper et al. (2021).

Table OVT4. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 Official Variety Trial conducted in Grand Junction, TN listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout [†] (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)
1	AMX 20B037 B3XF	1633 _a ¥	45.5	4.9	1.20	35.5	87.5
2	PHY 400 W3FE	1632 _a	45.0	4.6	1.20	34.1	86.0
3	BX 2295 B3XF	1602 _{ab}	45.2	4.9	1.20	31.2	85.8
4	ST 5091 B3XF	1590 _{abc}	45.1	4.4	1.17	31.0	83.5
5	ST 4993 B3XF	1566 _{a-d}	45.6	4.9	1.20	34.7	86.5
6	PX 1140A385-04 W3FE	1532 _{a-e}	46.5	5.0	1.19	33.7	87.4
7	PX 1140A383-04 W3FE	1525 _{a-f}	45.7	4.9	1.25	36.6	87.0
8	NG 3195 B3XF	1513 _{a-g}	43.9	4.5	1.12	32.1	84.4
9	ST 4990 B3XF	1484 _{a-h}	40.8	4.7	1.23	32.2	86.4
10	PX 1130A329-04 W3FE	1468 _{a-i}	45.4	5.2	1.17	34.1	83.9
11	PHY 332 W3FE	1463 _{a-i}	42.1	4.5	1.23	33.5	84.5
12	DP 2038 B3XF	1463 _{a-i}	47.3	4.9	1.14	32.8	84.3
13	DP 2012 B3XF	1456 _{a-j}	43.7	4.4	1.21	31.5	85.9
14	ST 4550 GLTP	1448 _{a-j}	46.1	4.9	1.17	32.3	86.3
15	NG 4190 B3XF	1411 _{b-k}	43.8	4.7	1.19	31.8	85.0
16	DP 2127 B3XF	1408 _{b-k}	45.6	4.8	1.16	31.4	86.1
17	AR 9371 B3XF	1393 _{b-k}	42.5	4.7	1.18	32.4	86.5
18	BX 2297 B3XF	1380 _{c-l}	44.3	4.9	1.19	29.9	85.5
19	DG 3535 B3XF	1377 _{c-l}	44.5	4.3	1.20	32.8	85.6
20	PHY 443 W3FE	1377 _{d-l}	43.8	4.9	1.13	33.0	85.1
21	DP 2115 B3XF	1372 _{d-l}	44.1	5.0	1.17	31.9	85.6
22	DG 3469 B3XF	1363 _{d-l}	41.6	4.8	1.21	31.7	85.8
23	PHY 390 W3FE	1354 _{d-l}	44.3	4.4	1.18	33.0	84.4
24	DG 3555 B3XF	1353 _{e-l}	41.9	3.9	1.27	34.7	86.2
25	DG 3520 B3XF	1352 _{e-l}	41.1	3.7	1.31	33.6	87.1
26	20R734 B3XF	1349 _{e-l}	45.3	4.9	1.20	31.0	84.6
27	DG 3317 B3XF	1325 _{e-l}	44.0	4.9	1.15	32.2	85.2
28	NG 4936 B3XF	1323 _{e-l}	41.5	4.5	1.27	31.6	87.4
29	DP 2141 B3XF	1322 _{e-l}	44.3	4.9	1.19	32.7	83.9
30	DG 3456 B3XF	1317 _{f-l}	44.4	4.4	1.20	30.8	84.8
31	AR 9831 B3XF	1303 _{g-l}	44.9	5.1	1.19	32.9	83.6
32	NG 5150 B3XF	1300 _{g-l}	44.7	4.4	1.23	33.9	85.5
33	PHY 360 W3FE	1285 _{h-l}	41.7	4.6	1.17	31.2	84.2
34	DG 3644 B3XF	1279 _{h-l}	43.7	5.0	1.22	35.2	85.9
35	DP 2020 B3XF	1262 _{i-l}	40.8	4.5	1.23	33.3	85.3
36	DP 1646 B2XF	1261 _{i-l}	41.8	4.5	1.28	31.4	85.2
37	AR 9608 B3XF	1245 _{jkl}	45.4	4.5	1.19	32.9	84.9
38	PX 4B08 W3FE	1231 _{kl}	43.5	4.8	1.13	34.0	85.5
39	BX 2298 B3XF	1209 _{kl}	43.2	4.8	1.13	32.1	85.0
40	NG 5711 B3XF	1199 _{kl}	41.5	4.6	1.27	32.6	86.9
41	BX 2296 B3XF	1173 _l	46.2	4.9	1.19	32.8	85.0
Average		1388	44.0	4.7	1.20	32.7	85.5
LSD (p<0.05)		213					
CV (%)		9.45					

¥Means followed by the same letter are not significantly different (p=0.05).

†Data from the first replicate was excluded due to observed off-target herbicide injury from an adjacent trial. Turnout and fiber quality determined from ginning two 25 boll samples collected from the third and fourth replicates.

Tennessee AgResearch data of Raper et al. (2021).

Table OVT5. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 West Tennessee Research and Education Trial conducted in Jackson, TN listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)
1	DP 2115 B3XF	1655 ^a	45.9	4.5	1.19	30.0	85.6
2	DP 2127 B3XF	1639 ^a	45.1	4.9	1.15	29.5	86.8
3	AMX 20B037 B3XF	1623 ^{ab}	45.7	4.8	1.18	34.1	86.8
4	ST 5091 B3XF	1599 ^{abc}	44.3	4.0	1.20	29.4	85.0
5	AR 9831 B3XF	1585 ^{a-d}	45.8	4.7	1.19	32.2	85.3
6	BX 2295 B3XF	1575 ^{a-e}	44.0	4.6	1.22	30.0	86.5
7	ST 4990 B3XF	1574 ^{a-e}	41.0	4.3	1.24	30.2	86.9
8	DG 3535 B3XF	1560 ^{a-f}	44.3	4.2	1.24	31.0	86.0
9	20R734 B3XF	1559 ^{a-f}	44.9	4.6	1.19	31.4	83.7
10	AR 9371 B3XF	1555 ^{a-f}	44.6	4.5	1.20	30.7	87.0
11	ST 4993 B3XF	1537 ^{a-g}	46.1	4.8	1.19	33.2	87.0
12	PX 1140A385-04 W3FE	1537 ^{a-g}	47.3	4.6	1.15	31.9	86.0
13	BX 2297 B3XF	1535 ^{a-g}	43.4	4.6	1.18	28.1	85.4
14	ST 4550 GLTP	1530 ^{a-h}	46.5	4.6	1.14	32.2	85.1
15	DP 2038 B3XF	1498 ^{a-i}	48.0	4.7	1.14	30.7	84.4
16	NG 3195 B3XF	1463 ^{b-j}	45.0	4.5	1.17	31.5	85.2
17	BX 2296 B3XF	1451 ^{c-j}	45.3	4.8	1.22	31.0	86.3
18	DG 3456 B3XF	1451 ^{c-j}	45.1	4.2	1.20	28.1	86.1
19	NG 5150 B3XF	1447 ^{c-j}	42.2	4.4	1.24	30.3	86.5
20	BX 2298 B3XF	1446 ^{c-j}	43.4	4.5	1.13	29.9	85.0
21	DG 3317 B3XF	1440 ^{c-j}	44.8	4.7	1.16	31.7	84.9
22	PHY 400 W3FE	1438 ^{c-j}	44.7	4.5	1.23	32.6	86.3
23	NG 4190 B3XF	1426 ^{d-k}	44.3	4.4	1.24	31.4	87.1
24	PX 1140A383-04 W3FE	1417 ^{e-k}	45.4	4.5	1.23	32.3	87.1
25	DP 1646 B2XF	1414 ^{e-k}	44.6	4.3	1.27	29.3	86.0
26	DP 2141 B3XF	1407 ^{f-l}	44.4	4.7	1.19	33.4	85.0
27	NG 4936 B3XF	1405 ^{f-l}	41.5	4.2	1.26	30.1	87.6
28	PHY 443 W3FE	1402 ^{f-l}	42.9	4.4	1.16	31.5	85.4
29	PHY 390 W3FE	1390 ^{g-m}	44.9	4.3	1.21	33.2	85.2
30	AR 9608 B3XF	1376 ^{g-m}	42.9	4.4	1.19	29.3	84.8
31	DG 3555 B3XF	1370 ^{h-m}	42.5	3.9	1.26	34.3	86.3
32	PX 4B08 W3FE	1368 ^{h-m}	45.5	4.6	1.12	31.0	85.2
33	DG 3520 B3XF	1349 ^{i-m}	40.9	3.6	1.29	32.4	87.3
34	DP 2012 B3XF	1348 ^{i-m}	42.9	4.4	1.21	32.3	85.5
35	PHY 360 W3FE	1321 ^{j-m}	43.6	4.3	1.17	29.4	84.6
36	DP 2020 B3XF	1310 ^{j-m}	40.8	4.3	1.26	29.4	87.1
37	DG 3644 B3XF	1300 ^{j-m}	43.6	4.7	1.24	34.2	86.3
38	PX 1130A329-04 W3FE	1271 ^{klm}	45.2	4.7	1.20	32.2	85.1
39	PHY 332 W3FE	1268 ^{klm}	41.8	4.3	1.24	32.0	84.6
40	NG 5711 B3XF	1247 ^{lm}	42.4	4.2	1.28	32.1	86.6
41	DG 3469 B3XF	1232 ^m	41.7	4.4	1.20	30.0	85.6
Average		1447	44.1	4.4	1.20	31.2	85.8
LSD (p<0.05)		163					
CV (%)		8.04					

‡ Means followed by the same letter are not significantly different (p=0.05).

† Turnout and fiber quality determined from ginning two 25 boll samples collected from the first and second replicates.

Tennessee AgResearch data of Raper et al. (2021).

Table OVT6. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 Milan Research and Education Trial conducted in Milan, TN listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)
1	AR 9371 B3XF	1039 _a	44.8	4.4	1.20	30.9	86.7
2	PHY 400 W3FE	1004 _{ab}	44.3	4.2	1.22	33.2	86.0
3	DP 2115 B3XF	984 _{abc}	43.7	4.3	1.20	30.8	85.3
4	DP 2038 B3XF	952 _{a-d}	45.9	4.6	1.18	31.9	85.2
5	AR 9831 B3XF	942 _{a-d}	44.5	4.5	1.18	32.7	84.9
6	NG 5150 B3XF	934 _{a-d}	41.1	4.4	1.26	30.0	85.1
7	PX 1140A383-04 W3FE	888 _{a-d}	42.5	4.2	1.25	34.2	85.8
8	PHY 332 W3FE	878 _{a-e}	42.4	4.0	1.23	32.8	85.1
9	PX 1130A329-04 W3FE	876 _{a-e}	43.2	4.1	1.21	31.8	84.5
10	NG 4936 B3XF	876 _{a-e}	38.7	3.8	1.26	31.8	86.6
11	DG 3317 B3XF	874 _{a-f}	43.8	4.4	1.19	31.0	85.7
12	DG 3535 B3XF	871 _{a-f}	44.9	4.3	1.25	30.9	86.2
13	PX 4B08 W3FE	870 _{a-f}	43.4	4.5	1.14	32.1	85.0
14	DP 1646 B2XF	870 _{a-f}	43.5	4.0	1.28	30.8	84.8
15	DG 3520 B3XF	868 _{a-f}	41.7	3.7	1.29	32.8	86.4
16	NG 3195 B3XF	868 _{a-f}	42.4	4.5	1.18	32.5	86.4
17	DP 2141 B3XF	863 _{a-f}	42.2	4.2	1.22	34.1	85.2
18	BX 2296 B3XF	857 _{a-f}	43.1	4.5	1.20	30.7	86.0
19	ST 5091 B3XF	854 _{a-f}	41.2	3.5	1.24	31.4	85.3
20	PX 1140A385-04 W3FE	849 _{a-f}	47.7	4.5	1.18	32.1	86.1
21	ST 4550 GLTP	843 _{a-f}	44.4	4.6	1.19	32.7	85.5
22	PHY 390 W3FE	835 _{a-f}	43.4	4.2	1.22	33.0	85.4
23	BX 2297 B3XF	824 _{a-f}	42.3	4.1	1.18	30.1	85.2
24	20R734 B3XF	816 _{a-f}	43.8	4.3	1.20	31.8	85.7
25	ST 4990 B3XF	812 _{a-f}	39.6	4.1	1.25	31.0	86.9
26	ST 4993 B3XF	811 _{a-f}	42.4	4.3	1.23	33.3	86.6
27	NG 4190 B3XF	797 _{a-f}	41.7	3.8	1.24	30.9	86.9
28	DG 3644 B3XF	784 _{a-f}	43.0	4.7	1.28	33.6	85.9
29	AMX 20B037 B3XF	779 _{a-g}	43.6	4.3	1.18	35.1	86.6
30	BX 2295 B3XF	760 _{b-g}	43.3	4.4	1.26	29.6	86.4
31	PHY 360 W3FE	747 _{b-g}	42.9	4.0	1.20	30.7	84.1
32	BX 2298 B3XF	740 _{b-g}	42.0	4.4	1.17	30.1	84.8
33	DG 3469 B3XF	733 _{b-g}	40.9	3.9	1.20	32.2	84.8
34	AR 9608 B3XF	730 _{b-g}	43.2	4.0	1.22	31.0	85.0
35	DG 3555 B3XF	726 _{b-g}	40.0	3.6	1.29	32.2	86.0
36	DP 2127 B3XF	715 _{c-g}	42.2	4.7	1.19	31.4	86.8
37	DP 2012 B3XF	710 _{c-g}	41.2	4.1	1.24	31.9	86.8
38	NG 5711 B3XF	684 _{d-g}	40.8	4.2	1.29	31.5	85.6
39	DG 3456 B3XF	607 _{efg}	42.5	4.1	1.22	32.5	85.2
40	PHY 443 W3FE	574 _{fg}	42.1	4.0	1.17	33.1	85.8
41	DP 2020 B3XF	503 _g	39.5	4.1	1.26	31.1	86.2
Average		818	42.7	4.2	1.22	31.9	85.7
LSD (p<0.05)		279					
CV (%)		24.33					

‡Means followed by the same letter are not significantly different (p=0.05).

†Turnout and fiber quality determined from ginning two 25 boll samples collected from the first and second replicates.

Tennessee AgResearch data of Raper et al. (2021).

Table OVT7. Average lint yield, turnout, and fiber quality of 41 entries in the 2021 Official Variety Trial conducted in Ridgely, TN listed by yield rank.

Yield Rank	Variety	Lint Yield (lb/ac)	Turnout [†] (%)	Mic	Length (in.)	Strength (g/tex)	Unif (%)
1	AR 9371 B3XF	2054 _a	44.2	5.0	1.16	30.2	85.2
2	ST 5091 B3XF	2001 _{ab}	44.3	4.3	1.19	31.0	84.6
3	DP 2127 B3XF	1986 _{abc}	45.4	5.1	1.18	33.2	85.2
4	BX 2295 B3XF	1985 _{abc}	44.2	4.8	1.24	32.4	85.0
5	PHY 443 W3FE	1983 _{a-d}	43.0	4.9	1.21	34.5	87.0
6	PHY 332 W3FE	1979 _{a-e}	41.9	4.5	1.28	34.5	86.4
7	PX 1140A385-04 W3FE	1971 _{a-e}	46.9	5.2	1.19	35.4	86.6
8	DP 2038 B3XF	1965 _{a-f}	47.2	4.9	1.14	31.8	83.2
9	PX 1140A383-04 W3FE	1921 _{a-g}	44.6	5.0	1.25	36.7	86.9
10	BX 2298 B3XF	1870 _{a-h}	42.6	4.8	1.15	30.9	84.5
11	ST 4990 B3XF	1834 _{a-i}	39.5	4.2	1.26	32.2	86.9
12	PHY 400 W3FE	1832 _{a-i}	44.8	4.7	1.20	34.0	86.5
13	AR 9608 B3XF	1826 _{a-i}	45.0	4.6	1.22	31.8	84.8
14	ST 4550 GLTP	1807 _{a-i}	44.8	4.7	1.19	33.4	85.7
15	DP 2141 B3XF	1801 _{a-i}	43.3	5.1	1.22	36.0	84.2
16	PX 4B08 W3FE	1779 _{b-i}	43.9	5.2	1.12	33.8	84.8
17	AMX 20B037 B3XF	1771 _{b-i}	44.3	4.6	1.21	36.3	85.3
18	DG 3555 B3XF	1763 _{b-i}	41.9	4.0	1.27	34.2	86.2
19	DG 3317 B3XF	1763 _{b-i}	43.6	4.8	1.20	32.1	85.5
20	ST 4993 B3XF	1735 _{b-j}	45.2	5.0	1.22	34.2	86.2
21	DP 2115 B3XF	1735 _{b-j}	45.5	5.0	1.14	32.7	83.8
22	PX 1130A329-04 W3FE	1733 _{c-j}	44.6	5.0	1.25	35.3	86.9
23	DG 3535 B3XF	1717 _{d-j}	42.9	4.5	1.23	32.3	84.8
24	DP 1646 B2XF	1712 _{e-j}	42.9	4.5	1.30	31.7	85.3
25	AR 9831 B3XF	1703 _{f-j}	44.4	5.0	1.20	32.0	83.9
26	NG 4190 B3XF	1701 _{f-k}	44.3	4.6	1.22	32.1	86.8
27	NG 3195 B3XF	1675 _{g-l}	43.6	4.7	1.20	33.6	86.1
28	DG 3456 B3XF	1663 _{g-l}	43.7	4.4	1.21	31.6	85.6
29	PHY 360 W3FE	1656 _{g-l}	42.2	4.8	1.21	31.9	84.7
30	20R734 B3XF	1651 _{h-l}	43.2	4.7	1.20	31.5	84.4
31	DG 3644 B3XF	1636 _{h-m}	40.7	4.7	1.28	35.0	86.2
32	PHY 390 W3FE	1635 _{h-m}	43.8	4.7	1.20	35.2	85.1
33	NG 5150 B3XF	1632 _{h-m}	43.8	4.7	1.23	33.7	85.2
34	NG 4936 B3XF	1623 _{h-n}	41.7	4.7	1.21	32.0	86.4
35	DG 3520 B3XF	1597 _{i-n}	40.3	4.0	1.29	33.3	86.5
36	DP 2020 B3XF	1492 _{j-o}	40.2	4.5	1.26	33.8	85.1
37	DP 2012 B3XF	1435 _{k-o}	42.0	4.4	1.25	33.5	86.2
38	NG 5711 B3XF	1426 _{l-o}	41.9	4.7	1.29	33.3	85.6
39	BX 2297 B3XF	1371 _{mno}	43.5	4.8	1.20	31.0	84.6
40	DG 3469 B3XF	1359 _{no}	40.9	4.7	1.24	32.2	85.9
41	BX 2296 B3XF	1326 _o	44.2	5.0	1.22	33.0	85.5
Average		1734	43.4	4.7	1.22	33.1	85.5
	LSD (p<0.05)	268					
	CV (%)	9.50					

‡Means followed by the same letter are not significantly different (p=0.05).

†Data from the first replicate was excluded due to observed off-target herbicide injury from a yard/brush spray. Turnout and fiber quality determined from ginning two 25 boll samples collected from the third and fourth replicates.

Tennessee AgResearch data of Raper et al. (2021).