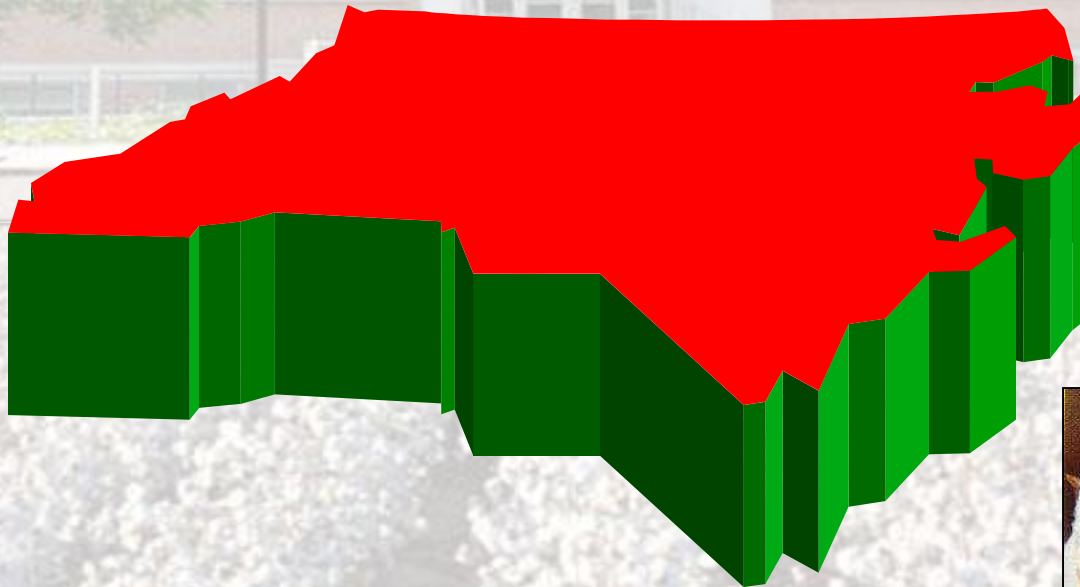


NC STATE UNIVERSITY

North Carolina Cotton - 2014



Keith Edmisten

North Carolina State University





NC STATE UNIVERSITY

NC STATE UNIVERSITY



NC STATE UNIVERSITY

Crop Insurance

Final Planting Date

..... **May 25, 2014**

NC STATE UNIVERSITY

Generalizations about cotton varieties **Early varieties versus later varieties**

- **Fruit lower on the plant**
- **Do not stand stress as well**
- **Have poorer fiber quality**
- **Mature earlier**

NC STATE UNIVERSITY

3-YEAR STATEWIDE AVERAGE PERFORMANCE OF COTTON VARIETIES – 2010-13.

BRAND VARIETY	# Lint/A	Lint %	% open bolls	Length (In.)	Mike
PHY499WRF	1179**	44.8	52	1.14	4.9
DP0912B2RF	1166*	42.6	52	1.13	4.9
DP1028B2RF	1139*	45.0	49	1.14	4.8
Am NG1511B2RF	1132*	44.9	47	1.15	4.8
DP1137B2RF	1102*	44.1	53	1.13	4.8
AM1550B2RF	1087	42.9	59	1.12	4.7
DP1252B2RF	1080	45.6	42	1.13	4.7
Dyna-Gro2610B2RF	1074	43.9	47	1.15	4.6
DP1034B2RF	1046	44.4	51	1.16	4.6
PHY375WRF	1042	43.6	54	1.14	4.6

NC STATE UNIVERSITY

2-YEAR STATEWIDE AVERAGE PERFORMANCE COTTON VARIETIES – 2012-13.

BRAND VARIETY	# Lint/A	Lint %	% open bolls	Length (In.)	Mike
DP0912B2RF	1297**	42.6	53	1.14	4.7
PHY499WRF	1283*	44.7	57	1.17	4.8
Americot NG1511B2RF	1278*	44.7	48	1.17	4.6
DP1321B2RF	1271*	43.8	53	1.16	4.6
Americot AM1550B2RF	1231*	43.0	63	1.15	4.6
ST 4946GLB2	1225*	42.9	51	1.15	4.9
DP1028B2RF	1225*	44.6	54	1.16	4.7
DP1137B2RF	1193*	43.6	55	1.16	4.7
Croplan CG3787B2RF	1191*	44.2	48	1.17	4.8
Dyna-Gro2285B2RF	1186*	42.6	51	1.18	4.6
ST 6448GLB2	1173	41.8	52	1.18	4.6
PHY339WRF	1172	42.5	56	1.18	4.5
DP1048B2RF	1170	44.1	54	1.17	4.5
PHY375WRF	1169	43.4	58	1.15	4.5
DP1311B2RF	1162	44.1	53	1.17	4.5
+DP1252B2RF	1159	45.0	42	1.15	4.6
Dyna-Gro2610B2RF	1158	43.6	49	1.16	4.6
DP1050B2RF	1153	44.8	53	1.17	4.5
DP1034B2RF	1137	44.1	52	1.18	4.5
Croplan CG3428B2RF	1090	42.9	51	1.18	4.6

NC STATE UNIVERSITY

STATEWIDE AVERAGE PERFORMANCE OF COTTON VARIETIES - 2013. (Top half)

BRAND VARIETY	# Lint/A	Lint %	% open bolls	Length (In.)	Mike
PHY 333WRF	1216**	45.0	55	1.17	4.2
Americot NG1511B2RF	1167*	45.5	47	1.17	4.3
DP 0912B2RF	1162*	43.1	55	1.17	4.2
PHY 417WRF	1156*	44.0	52	1.18	4.4
PHY 339WRF	1131*	42.7	55	1.15	4.5
PHY 375WRF	1128*	44.4	50	1.16	4.6
DP 1321B2RF	1128*	44.4	54	1.15	4.3
ST 4747GLB2	1108*	43.6	60	1.18	4.2
PHY 499WRF	1095*	45.6	51	1.15	4.7
ST 4946GLB2	1094*	42.8	46	1.15	4.7
FM 1944GLB2	1084*	41.2	40	1.18	4.6
Dyna-Gro 2285B2RF	1084*	43.0	54	1.17	4.3
Americot AM1550B2RF	1079*	43.4	56	1.15	4.3
DP 1044B2RF	1069	42.2	50	1.17	4.5
PHY 427WRF	1062	42.0	57	1.17	4.4

NC STATE UNIVERSITY

STATEWIDE AVERAGE PERFORMANCE OF COTTON VARIETIES - 2013. (bottom half)

BRAND VARIETY	# Lint/A	Lint %	% open bolls	Length (In.)	Mike
ST 6448GLB2	1030	41.9	44	1.15	4.5
DP 1028B2RF	1002	44.5	42	1.18	4.4
Croplan CG3787B2RF	998	44.5	43	1.18	4.7
DP 1311B2RF	988	44.5	49	1.17	4.3
DP 1048B2RF	963	43.9	47	1.16	4.3
DP 1034B2RF	950	44.2	37	1.18	4.4
DP 1137B2RF	945	43.9	51	1.15	4.5
Dyna-Gro 2610B2RF	937	44.0	41	1.15	4.5
DP 1050B2RF	935	44.7	49	1.15	4.5
Croplan CG3428B2RF	906	43.1	51	1.15	4.6
Americot NG5315B2RF	898	44.0	37	1.18	4.5
PHY 599WRF	873	42.6	28	1.17	4.4
Seed Source HQ210CT	801	42.1	45	1.16	4.6
Seed Source Genetics UA222	744	42.2	51	1.17	4.5

NC STATE UNIVERSITY

Large Plot Variety Trials 2013

Keith Edmisten

North Carolina State University



NC STATE UNIVERSITY

CI/Cotton Specialist Large Plot Variety Tests 2013

Variety	Northampton		Bertie 1		Bertie 2	
DP 1321	1176a		1710a		1238a	
DP 1028	1022b		1339e			
DP 1137	1060ab		1380de		1265a	
ST 4946	1076ab		1496cd		1312a	
ST 6448	1065ab		1415de		1230a	
FM 1944	1027b		1487cd		1360a	
NG 1511	1142ab		1553bc		1350a	
NG 5315	1023b		1165f		1221a	
PHY 375	1103ab		1647ab		1341a	
PHY 499	1099ab		1630ab		1340a	
PHY 339	1124ab		1424de		1238a	
DG 2570	1063ab					

2013 Large-Plot Variety by Technology Trial^a

Variety	Lewiston	Rocky Mt.	Jackson Sp.	Average
	----- lint yield (lb/acre) -----			
PHY 375 WRF	1760*	1290**	920**	1320*
PHY 499 WRF	1750**	1210	880**	1290**
DP 1321 B2RRF	1670**	1190	950**	1280**
PHY 339 WRF	1690**	1170	870	1250**
ST 4747 GLB2	1600	1290**	870	1250**
ST 4946 GLB2	1600	1310*	830	1240**
PHY 367 WRF	1680**	1120	880**	1230
FM 1944 GLB2	1590	1260**	760	1200
DP 1137 B2RRF	1400	1020	1000*	1150
DP 1028 B2RRF	1460	1040	890**	1130
ST 6448 GLB2	1570	1050	750	1130

^a DP and PHY varieties treated with 32 oz Roundup PowerMax applied twice; FM and ST varieties received 32 oz Liberty applied twice to 2- to 3-leaf cotton and repeated on 5- to 6-leaf cotton.

* Highest yielder. ** Not different from highest yielder at $p \leq 0.05$.

2013 Large-Plot Variety by Technology Trial. Average of 3 locations.^a

Variety ^b	Lint yield (lb/A)	% lint	Micro-naire	Length (in)	Strength (g/tex)	Uniformity (%)	Loan rate (cents/lb) ^c
PHY 375 WRF	1320 a	44.9 ab	4.5 g	1.14 cd	29.0 f	84.1 bc	53.7 ab
PHY 499 WRF	1290 ab	45.5 a	4.8 d	1.14 cd	31.3 ab	84.6 ab	53.7 ab
DP 1321 B2RRF	1280 abc	44.1 bc	5.1 a	1.13 d	29.6 ef	84.3 ab	51.9 d
PHY 339 WRF	1250 abc	43.4 cd	4.5 g	1.19 b	30.6 abc	84.5 ab	53.7 ab
ST 4747 GLB2	1250 abc	44.0 bcd	4.7 e	1.19 b	30.3 de	84.3 ab	53.8 a
ST 4946 GLB2	1240 abc	42.8 e	5.0 b	1.15 c	31.5 ab	84.3 ab	53.1 bc
PHY 367 WRF	1230 bcd	43.1 de	4.6 f	1.14 cd	30.4 cde	83.6 c	53.7 ab
FM 1944 GLB2	1200 cde	42.4 e	4.6 f	1.18 b	32.3 a	84.1 bc	53.9 a
DP 1137 B2RRF	1150 de	44.6 ab	4.9 c	1.15 c	29.2 f	84.4 ab	52.7 c
DP 1028 B2RRF	1130 e	45.4 a	4.8 d	1.15 c	28.9 f	84.2 ab	53.1 bc
ST 6448 GLB2	1130 e	42.4 e	4.6 f	1.21 a	30.5 cde	84.7 a	53.8 a

^a Means within a column with same letter are not different at 5% probability level.

^b DP and PHY varieties treated with 32 oz Roundup PowerMax applied twice; FM and ST varieties received 32 oz Liberty applied twice to 2- to 3-leaf cotton and repeated on 5- to 6-leaf cotton.

^c Based upon 52-cent loan with discounts and premiums for micronaire, length, strength, and uniformity.


NC STATE UNIVERSITY

Cotton Incorporated Regi...North Carolina State Univ...FUMC Celebration Leader...

←→↻https://seedmatrix.com/CottonIncRegistration

AppsTinEye Reverse Imag...Crop Science | Offic...Research Centers / ...science & technolo...CS224historyCS216North Carolina Crop...Agricultural Marketi...Home Page | State C...

WELCOMEHOW IT WORKSBENEFITSPRESSCONTACTMY DASHBOARD



Member Login


Username or Email

Password

☐ Remember Me

Sign in

If forgot my password.

 Cotton Incorporated Registration

Your Contact Information

First Name*

Last Name*

Email*

Username*

Phone

Fax

Address

City, State (County)*

ZIP Code*

Please list the acres for each crop you grow.

Cotton*

0

Corn*

0

Soybean*

0

Wheat*

0

Sorghum*

0

Rice*

0

Miscellaneous Questions

What brand of equipment do you use?

What make of truck do you drive?

What brand(s) of mobile device (phone, tablet, etc.) do you use?

☐ iPhone 5 (or later)

☐ iPhone 4S (or earlier)

☐ iPad

☐ Android Phone

☐ Android Tablet

☐ Windows Phone

☐ Windows RT Tablet

☐ Microsoft Surface

☐ BlackBerry 10 Phone

☐ BlackBerry 10 PlayBook

☐ BlackBerry PlayBook

☐ Other BlackBerry

☐ MacBook Pro

☐ MacBook

☐ Chromebook

☐ Windows Laptop

☐ Other

*Required fields.

Submit Registration

WELCOMEHOW IT WORKSBENEFITSPRESSCONTACTMY DASHBOARD

All content ©2012 SeedMatrix.com
PH 901-277-6764
info@seedmatrix.com

NC STATE UNIVERSITY

Browser tabs: <https://www.progre...> [TheWolfpacker.com](https://www.thewolfpacker.com) [Who's feeling stress](#) [About Lymphedema](#) [James Joyce's Humi](#) [Castlot](#) [Head to Head Com](#)

Address bar: <https://seedmatrix.com/headToHead>

seedmatrix Dashboard Reports Regions Profile Help me with this page! Sign Out [Keith Edmisten]

Cotton

Single Trial Data Top Performing Products **Head to Head Comparison** One to Many Comparison

Head to Head Comparison

☒ Compare Products ☐ Compare Companies

Company: Product:

Tests: 0 Columns

Filters Year (ALL) ☒ All ☒ 2013 ☒ 2012 ☒ 2011 ☒ 2010 ☒ 2009 ☒ 2008 ☒ 2007 ☒ 2006 ☒ 2005

Head to Head Results Trials By State Trials Within States Benchmark Comparison Product Details Dual Axis Chart Scatter Chart

Company	Product	Trait	All Trials		Trials with Fiber Data						
			Yield	Turnout	Yield	Turnout	Staple	Strength	Mic	Unif	\$/LB

NC STATE UNIVERSITY

Browser tabs: <https://www.progre...> [TheWolfpacker.com](#) [Who's feeling stress](#) [About Lymphedema](#) [James Joyce's Humi](#) [Castlot](#) [Head to Head Com](#)

Address bar: <https://seedmatrix.com/headToHead>

seedmatrix Dashboard Reports Regions Profile Help me with this page! Sign Out [Keith Edmisten]

Cotton

Single Trial Data Top Performing Products **Head to Head Comparison** One to Many Comparison

Head to Head Comparison

☒ Compare Products ☐ Compare Companies

Company: Product:

Tests: 0 Columns

Filters

State (3)

Year (ALL)

State (3)

Company (ALL)

Trait (ALL)

Soil (ALL)

Irrigation (ALL)

Tillage (ALL)

Trial Type (ALL)

Region (OFF)

☒ Enable ☐ All ☐ Alabama ☐ Arkansas ☐ Arizona ☐ California ☐ Florida ☐ Georgia ☐ Kansas ☐ Louisiana ☐ Missouri ☐ Mississippi ☐ North Carolina ☐ New Mexico ☐ Oklahoma ☒ South Carolina ☐ Tennessee ☐ Texas ☒ Virginia ☒ Show on Exports

Product	Trait	All Trials		Trials with Fiber Data						Unif	\$/LB	\$/Acre
		Yield	Turnout	Yield	Turnout	Staple	Strength	Mic				

NC STATE UNIVERSITY

https://www.progre x TheWolfpacker.com x Who's feeling stress x About Lymphedem x James Joyce's Humi x Castlot x Head to Head Com x

← → ↻ https://seedmatrix.com/headToHead ☆ ≡

seedmatrix Dashboard Reports Regions Profile Help me with this page! Sign Out [Keith Edmisten]

Cotton

Single Trial Data Top Performing Products **Head to Head Comparison** One to Many Comparison

Head to Head Comparison

● Compare Products ● Compare Companies

Company: Product:

Tests: 0

Filters State (3) ☒ Enable ☐ All ☐ Alabama ☐ Ar

Head to Head Results Trials By State Trials Within

Company	Product	Trait	Yield
	DP 164 B2RF		
	DP 432 RR		
	DP 434 RR		
	DP 444 BR		
	DP 445 BR		
	DP 454 BR		
	DP 455 BR		
	DP 555 BR		
	FM 1845LLB2		
	FM 1880B2F		
	FM 9058F		
	FM 9060F		
	FM 9063B2F		
	FM 955LLB2		
	PHY 310 RR		
	PHY 485 WRF		
	ST 4288B2F		
	ST 4357B2RF		
	ST 4554B2RF		
	More choices		

Columns

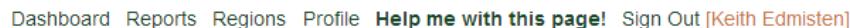
ida ☐ Georgia ☐ Kansas ☐ Louisiana ☐ Missouri ☐ Mississippi ☒ Show on Exports

Product Details Dual Axis Chart Scatter Chart

Trials with Fiber Data

out	Staple	Strength	Mic	Unif	\$/LB	\$/Acre
-----	--------	----------	-----	------	-------	---------

https://www.progre x TheWolfpacker.com x Who's feeling stress x About Lymphedema x James Joyce's Hume x Castlot x Head to Head Com x

Single Trial Data Top Performing Products **Head to Head Comparison** One to Many Comparison

☒ Compare Products ☐ Compare Companies

Tests: 8|8 2012: 1|1 2013: 7|7

Columns Remove Reset Maximize

Apply Reset ☒ Show on Exports

Head to Head Results	Trials By State	Trials Within States	Benchmark Comparison	Product Details	Dual Axis Chart	Scatter Chart
----------------------	-----------------	----------------------	----------------------	-----------------	-----------------	---------------

[illegible]

NC STATE UNIVERSITY

https://www.progre x TheWolfpacker.com x Who's feeling stress x About Lymphedem x James Joyce's Hum x Castlot x Head to Head Com x

← → ↻ https://seedmatrix.com/headToHead ☆ ☰

seedmatrix Dashboard Reports Regions Profile **Help me with this page!** Sign Out [Keith Edmisten]

Cotton

Single Trial Data Top Performing Products **Head to Head Comparison** One to Many Comparison

Head to Head Comparison

☒ Compare Products ☐ Compare Companies

Company: Product:

Tests: 256|205 2009: 92|84 2010: 55|47 2011: 47|18 2012: 44|38 2013: 18|18 Columns

Filters Year (ALL) ☒ All ☒ 2013 ☒ 2012 ☒ 2011 ☒ 2010 ☒ 2009 ☒ 2008 ☒ 2007 ☒ 2006 ☒ 2005 ☒ Show on Exports

Head to Head Results Trials By State Trials Within States **Benchmark Comparison** Product Details Dual Axis Chart Scatter Chart

Company	Product	Trait	All Trials		Trials with Fiber Data							
			Yield	Turnout	Yield	Turnout	Staple	Strength	Mic	Unif	\$/LB	\$/Acre
Delta Pine	DP 0912 B2RF	B2RF	1,193	39.7%	1,177	39.5%	35.6	29.5	4.81	83.1%	\$0.5179	\$612.49
Delta Pine	DP 0920 B2RF	B2RF	1,128	40.7%	1,114	40.6%	36.4	28.2	4.66	82.9%	\$0.5261	\$588.55

NC STATE UNIVERSITY

The background of the slide is a composite image. The upper portion shows a large, multi-story university building with a central entrance and many windows, partially obscured by trees. The lower portion shows a vast field of white, fluffy flowers, likely cotton, stretching towards the horizon. The text "Availability of Newer Varieties" is superimposed over the middle of the image.

Availability of Newer Varieties

NC STATE UNIVERSITY

Americot Varieties

- NG 1511 B2RF (medium)
- NG 5315 B2RF (late)
- Amply supply of both

NC STATE UNIVERSITY

Bayer Varieties

- ST 4747GLB2 supply will be pretty limited
- ST 4946GLB2, ST 6448GLB2 and FM 1944GLB2 have excellent supply

NC STATE UNIVERSITY

Deltapine Varieties

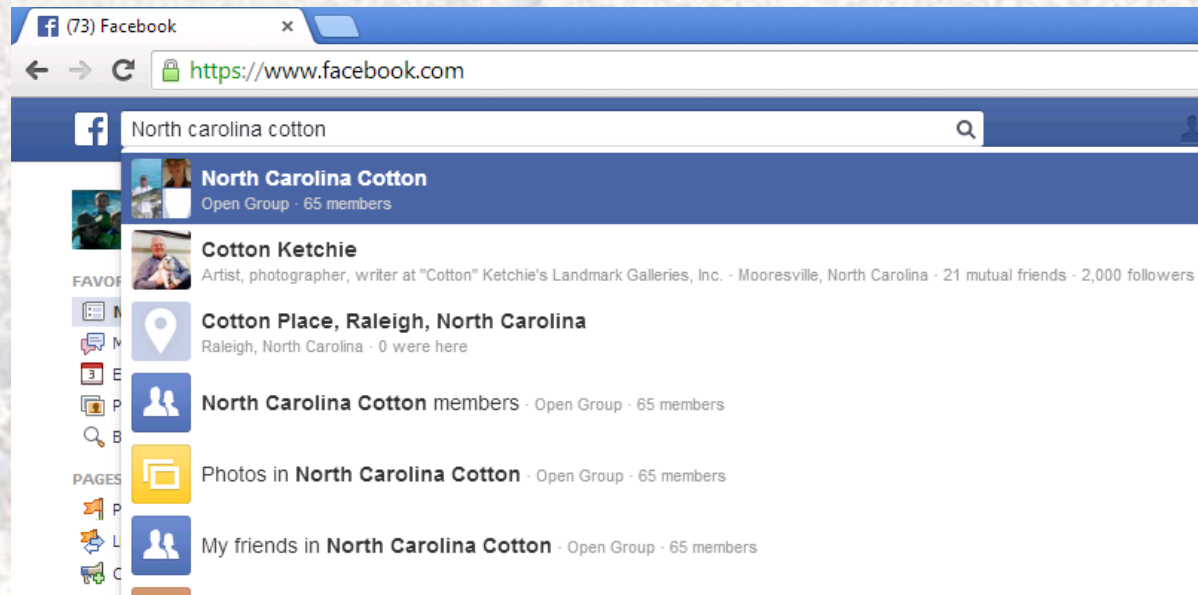
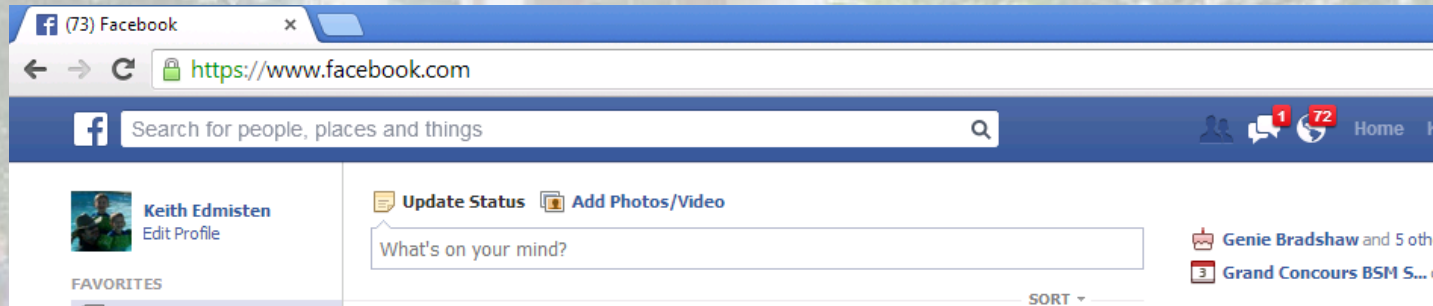
- DP1311B2RF (early)
- DP1321B2RF (early)
- Excellent supply of both

NC STATE UNIVERSITY

PhytoGen Varieties

- PHY 333, 495, and 427 all very short supply
- PHY 339 and 575 good but not unlimited
- 427 root knot resistance

NC STATE UNIVERSITY



NC STATE UNIVERSITY

f (72) North Carolina Cotton x

← → ↻ <https://www.facebook.com/groups/344058599029946/>

f North Carolina Cotton 🔍

Pages and Public Figures
Add Interests...

 **Luke O'Neal**
Dr. Keith, Do y'all have any data on an in furrow treatment of Imidicloprid at planting.
Like · Comment · Share · November 13, 2013 at 10:05am

✓ Seen by 34

 **Keith Edmisten** yes we do. We will be showing that at winter meetings. It has looked good.
November 18, 2013 at 9:45am · Edited · Like

 **Dominic Reisig** It only works in combination with a seed treatment. Very inconsistent applied alone in-furrow.
November 18, 2013 at 9:30am · Like

 **Luke O'Neal** thanks for the feedback and all of your hard work.
November 18, 2013 at 9:32am · Like

 **Keith Edmisten** One of my graduate students, Todd Spivey worked on it with Jack, Dominic and I. Jack or Dominic may want to comment on the data for this year, but to summarize, it is rate responsive. The rate we saw you needed was 9 oz per acre of Admire Pro, which contains 4.6 pounds of imidicloprid per gallon. If you use a generic you need to adjust the rate based on the pounds active per gallon. For example a 4 pound per gallon formulation you would need 10.3 ounces. It appears to be very important to use the right nozzles and nozzle orientation to get the spray on the seed, not on the sides of the furrow. And, like Dominic said, you need to use treated seed.
November 20, 2013 at 3:59pm · Edited · Like

 **Jonathan Evans** Will the in-furrow spray do away with a post spray of Orthene at the 3 week stage?
11/18/2013 9:45 AM, Keith Edmisten wrote:
November 18, 2013 at 10:53am · Like

 **Dominic Reisig** We think so. Full rate of admire and seed treatment looks as good as seed treatment plus spray
November 18, 2013 at 1:58pm · Like

 **PatJack Bacheler** Like has been stated above, we think that the full rate of the imidacloprid is important with the treated seed. Plus, I think that the grower in Wilson County with whom we had the tests nailed the application with his strong circular jet of finished product going right into the center of the open furrow onto the seed before closure. He used a drop tube with a #55 orifice this year. We think that this provide producers with a good chance of a "one- and-

https://apps.facebook.com/farmville-two/?fb_source=sidebar_bookmark

NC STATE UNIVERSITY

← → ↻ <https://www.facebook.com/groups/344058599029946/>



North Carolina Cotton



Keith Edmisten

strip-till on the left, bedded conventional on the right from David Jordan's plots. Looks like Alan York's early work that showed conventional was better than reduced tillage in a wet year was on the money. We probably need to think of ways to include bedding in strip-till systems.



Like · Comment · Share · August 6, 2013 at 4:51pm



David Morrison, Mary Thurman Wilks, Sarah Marie Arthur and 3 others like this.

✓ Seen by 48



Keith Edmisten and yes it looks like the pigweed likes it better drained and less denitrification as well!

August 6, 2013 at 11:10pm · Like



Mary Thurman Wilks we took your advice and plowed some cotton, in 10 days it looked much better!

August 6, 2013 at 11:43pm · Like



Keith Edmisten In these days sometimes we forget what a plowing can do. One of the best things Roundup cotton did for us was get us away from too much tillage and root pruning, but a well timed tillage can

NC STATE UNIVERSITY

Cotton lint yield in conventional* and strip tillage cotton

Tillage	2012	2013	2012	2013	2012 + 2013
	lbs/acre		\$/acre		
Conventional	1049	753	313	83	396
Strip	1045	496*	312	-128 *	184 *

*Conventional was bedded.

NC STATE UNIVERSITY

NC Cotton | North Carolina C x

cotton.ces.ncsu.edu


☆ ☰

Cotton


[Home](#) [2013 Cotton Information](#) [NC Agricultural Chemicals Manual](#) [Carolina Cotton Notes](#) [Field Crops](#) [Links](#)

DEPARTMENTS

[Crop Science](#)
[Entomology](#)
[Plant Pathology](#)
[Soil Science](#)



FEATURED CONTENT



Wet Weather and Tillage

This is the second in a feature of spotlights.

[READ THE REST »](#)

1

2

3

4

5

NEWS

[View All](#)

Yield Stability of Cotton Varieties

One is tempted to want to look at the nearest cotton variety test and place a lot of emphasis on those results for variety selection for the coming year. What happened at a [MORE »](#)

Posted: Today

2013 North Carolina Cotton OVT results available.

popular

The results from the North Carolina Cotton OVT are posted at the link below. This was a challenging year for researchers as well as growers. Although the heat units for this year were [MORE »](#)

Posted: 1/7/14

New Defoliant from FMC

Display is a new PPO defoliant released by FMC last August. Display

EVENTS

[View All](#)


Scotland/Hoke/Robinson Cotton Meeting


Tue Feb 4, 2014
5:00 PM - 8:00 PM
Where:
Hoke Robeson Gin 7480 Old Maxton Road Red Springs, NC 28337
— 23 hours away

Piedmont Cotton Meeting

Wed Feb 5, 2014
10:00 AM - 1:00 PM
Where:
Stanly County Center 26032-E Newt Rd, Albemarle, NC 28001
— 2 days away

Tweets from @NCcotton


**Keith Edmisten** 22 Jan
@NCcotton
Winter Cotton meeting schedule at cotton.ces.ncsu.edu/events/
[Expand](#)

**Keith Edmisten** 8 Jan
@NCcotton
NC commodity conference ncgrainsconference.org


NC STATE UNIVERSITY

Keitl x http x TheV x Who x Abol x Jam x Cast x Heac x Agro x NCS x jacks x f (75) x NC Yield x NC Yield x


cotton.ces.ncsu.edu/2014/02/yield-stability-of-cotton-varieties/



Keith Edmisten @NCcotton
Winter Cotton meeting schedule at cotton.ces.ncsu.edu/events/
Expand



Keith Edmisten @NCcotton 8 Jan
NC commodity conference ncgrainsconference.org



Keith Edmisten @NCcotton 7 Jan
2013 NC cotton OVT results available at ncovt.com/trials.php?ovt...
Expand

Lint Yield Rankings of Selected Varieties in Southeast University Variety Trials (North Carolina, South Carolina and Georgia) – 1998 to 2013 (data compiled by Mike Jones, Clemson University)

Variety	# of Trials	% of Trials Ranked in Top 25% in Yield				% of Trials Ranked in Top 50% in Yield				% of Trials Ranked in Top 75% in Yield			
		SE	NC	SC	GA	SE	NC	SC	GA	SE	NC	SC	GA
PX 444413WRF	8	88	-	-	88	100	-	-	100	100	-	-	100
PHY 499WRF	129	74	67	70	78	95	93	96	94	99	100	100	98
DPL 1028B2RF	65	65	60	54	79	88	87	81	96	98	100	96	100
MON 13R352B2R2	17	65	25	80	75	82	75	100	75	94	75	100	100
DPL 555BR¹	217	63	71	55	71	86	94	80	91	94	100	92	96
PX 444414WRF	22	59	25	60	75	91	75	90	100	95	100	90	100
PX 300310WRF	17	59	50	20	88	76	75	60	88	82	75	80	88
DPL 1137B2RF	99	58	56	60	57	84	72	89	85	98	100	100	96
DPL 1252B2RF	71	58	60	54	59	75	67	79	75	92	87	96	91

NC STATE UNIVERSITY

Cotton

[Home](#) [2014 Cotton Information](#) [NC Agricultural Chemicals Manual](#) [Carolina Cotton Notes](#) [Field Crops](#) [Links](#)

DEPARTMENTS

[Crop Science](#)
[Entomology](#)
[Plant Pathology](#)
[Soil Science](#)



FEATURED CONTENT



Carolina Cotton Notes

Carolina Cotton Notes is where we used to post information prior to the "blog age". Most of the information posted here deals with in-season problems we have seen in North Carolina such as hail damage, foliar fertilizing, frost...

[READ THE REST »](#)

1

2

3

4

5

Tweets from @NCcotton



Keith Edmisten 21 Feb
@NCcotton

Information about the new farm bill cotton.ces.ncsu.edu



Keith Edmisten 21 Feb
@NCcotton

Hertford, Halifax and Northampton county meetings rescheduled for Feb 27 and 28th. Details at cotton.ces.ncsu.edu

NEWS

[View All](#)

Farm Bill – Agricultural Act 2014

Hopefully most of you are aware that there are some decisions you need to make for the new farm bill. Here are some links to information concerning the farm bill that might be [MORE »](#)

Posted: 2/21/14

Stink Bug Decision Aid App Now Available

The Stink Bug Decision Aid App is now available for phones using the iOS platform free of charge thanks to funding provided by Cotton Inc. You can download here, or search the Apple App [MORE »](#)

Posted: 2/19/14

Three new 'Focus on Cotton' Webcasts Give Producers a Good Head Start for the Growing Season

popular

Variety selection, weed management strategies, and nematodes are often at the front of cotton producers minds during the winter and early

EVENTS

[View All](#)

Edgecombe/Nash/Wilson area cotton meeting

Mon Feb 24, 2014 [Today](#)

12:00 PM - 3:00 PM

Where:

East Carolina Ag & Education Center: 1175 Kingsboro Road, Rocky Mount

— 2 hours away

Pitt county cotton meeting

Tue Feb 25, 2014

12:00 PM - 3:00 PM

Where:

Pitt County Agriculture Center, 403 Government Circle, Greenville, NC 27834

— Tomorrow

NC STATE UNIVERSITY

NC Cotton | North Carolina C x

cotton.ces.ncsu.edu

ncgrainsconference.org



Keith Edmisten 7 Jan
@NCcotton

2013 NC cotton OVT results available at ncovt.com/trials.php?ovt...
Expand



Keith Edmisten 11 Dec
@NCcotton

Calendar of winter cotton meetings at cotton.ces.ncsu.edu



Keith Edmisten 18 Nov
@NCcotton

added more to the info on imidicloprin at facebook.com/groups/34405



Keith Edmisten 24 Oct
@NCcotton

comments on Gramoxone as defoliant at facebook.com/groups/34405



Keith Edmisten 24 Oct
@NCcotton

new defoliation info at facebook.com/groups/34405
Expand

Display is a new PPO defoliant released by FMC last August. Display is a mix of the herbical defoliant Aim, which you may have some familiarity, and a herbicide called Cadet. We have MORE »

Posted: 9/27/13

Bark in Cotton

There have been some concerns and questions levels of bark after the 2012 crop. Dr. Thomas Valco, the Cotton Technology Transfer Coordinator for USDA, AMS has been investigating possible reasons for the increased MORE »

Posted: 9/13/13

Last Effective Bloom Date

We are right at the time that is considered to be the last date you have a reasonable chance of a bloom actually producing a harvestable boll. August 15 was once considered to MORE »

Posted: 8/22/13

COTTON DISEASE UPDATE: Leaf spots on Cotton

Steve Koenning, Extension Plant Pathologist and Keith Edmisten Cotton Extension Specialist COTTON DISEASE UPDATE: Leaf spots on Cotton Leaf spot on cotton is especially common throughout North Carolina A variety of fungi can MORE »

Posted: 8/2/13

Foliar Fertilization of Cotton

Hopefully the fields will be drying out enough for cotton to start recovering from all the rain and possible loss of nutrients some fields. A lot of people are interested in foliar feeding MORE »

Posted: 7/16/13



Wet Weather Blight on Cotton

Keith Edmisten and Steve Koenning The wet cloudy weather at planting was fairly conducive to wet weather blight, particularly for some planting dates. Wet weather blight is caused by ascochyta fungus. We see MORE »

Posted: 6/7/13

NC Cotton Meeting, NC 2014

— 2 days away

Jones/Craven area cotton meeting

Thu Feb 6, 2014

12:00 PM - 3:00 PM

Where:

Jones County Cotton Gin 474 Nobles Loop Road, Trenton, NC 28585

— 3 days away

Bertie county cotton meeting

Mon Feb 10, 2014

10:00 AM - 12:30 PM

Where:

WINDSOR COMMUNITY BUILDING
201 South Queen Street Windsor,
North Carolina

— 7 days away

Martin county cotton meeting

Mon Feb 10, 2014

12:30 PM - 3:30 PM

Where:

Martin county cotton meeting

— 7 days away

Northeast NC cotton meeting

Mon Feb 10, 2014

5:00 PM - 8:00 PM

Where:

Leon Nixon's Catering - 749 Virginia Rd. Edenton

— 7 days away

Blacklands cotton meeting

Tue Feb 11, 2014

10:00 AM - 1:00 PM

Where:

Twitter, Inc. [US] https://twitter.com/NCcotton

TinEye Reverse Imag... Crop Science | Offic... Research Centers / ... science & technolo... CS224 history CS216 North Carolina Crop...

Home @ Connect # Discover Me

Search

9 TWEETS 2 FOLLOWING 24 FOLLOWERS

Twitter

Tweets


Following

Followers

Favorites

Lists


Who to follow · Refresh · View all



Fix the Debt

@FixtheDebt


Follow Promoted



Gus Lorenz

@guslor77

Follow



Team Rubus

@NCTeamRubus

Follow

Popular accounts · Find friends

Trends · Change

#LGG2 Promoted

#SharkWeek

President Obama

#tcot

Percy Jackson

#WhitePeopleBoycottingEBONY


#DescribeYourBestFriendInOneWord

#NanoWantsToBeScooter

Breaking Bad

Justin Bieber

© 2013 Twitter About Help Terms Privacy Blog Status Apps Resources Jobs Advertisers Businesses Media Developers



Keith Edmisten

@NCcotton

North Carolina Cotton Production nccrops.com


9 TWEETS

2 FOLLOWING

24 FOLLOWERS

✉ Edit profile

Tweets




Keith Edmisten

@NCcotton

some new pictures and comments at facebook.com/groups/3440585...

Expand




Keith Edmisten

@NCcotton

new article on leaf spots at nccrops.com

Expand




Keith Edmisten

@NCcotton

new blog at nccrops.com

Expand




Keith Edmisten

@NCcotton

new post on facebook.com/groups/3440585...

Expand




Keith Edmisten

@NCcotton

comments on water-logged cotton at facebook.com/groups/3440585

Expand




Keith Edmisten

@NCcotton

Foliar Fertilization of Cotton nccrops.com/2013/07/15/fol...

Expand




Keith Edmisten

@NCcotton

phone stink bug ap at ipm.ncsu.edu/cotton/insect...

Expand



Keith Edmisten

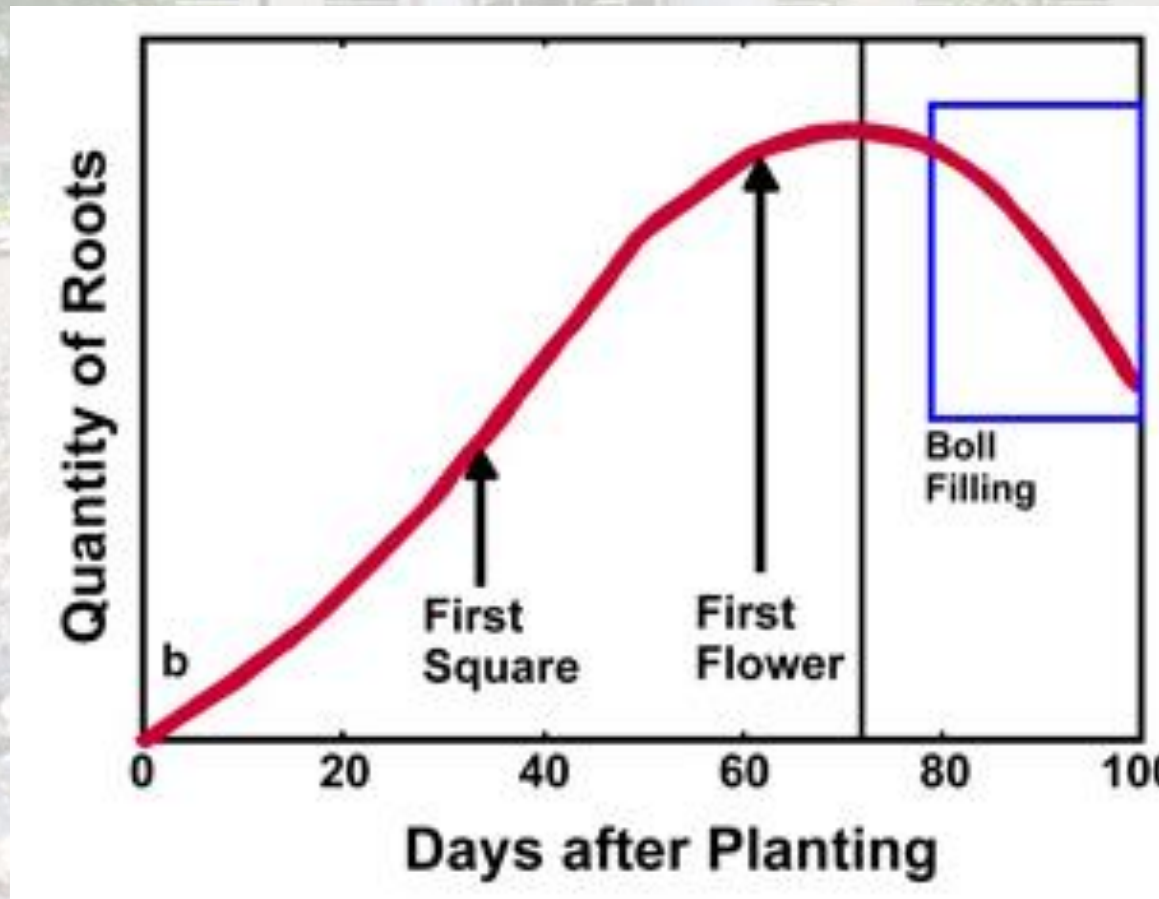
@NCcotton

(97) North Carolinahtm target leaf spot.jpg corynespora-leaf-spot.gif

Show all downloads...



Roots will not grow after bloom.





NC STATE UNIVERSITY

NC STATE UNIVERSITY





Replacing lost fertilizer

- **Consider side-dressed fertilizer up to end of second week of bloom.**
- **Foliar after the second week of bloom.**



Table 1. Options for foliar application of urea to dryland cotton (leaves do not wilt by noon)

#N/acre	# 46% urea	gal. of 23% N Urea	application volume
4.6	10	2.1	5 gallons
5.5	12	2.5	10 gallons
6.9	15	3.1	15 gallons
9.2	20	4.2	20 gallons

*Table 2. Options for foliar application of urea to irrigated cotton or fields that have had recent rainfall**

#N/acre	#46% urea	gal. of 23% N urea	application volume
6.6	14	3.0	5 gallons
7.8	17	3.5	10 gallons
9.2	20	4.2	15 gallons
11.5	25	5.25	20 gallons

** Caution: These rates can cause leaf burn if leaves contain inadequate moisture, especially when two or more consecutive weekly applications are made.*



Replacing lost fertilizer

➤ **Nitrogen**

➤ **Sulfur**

➤ **Potassium**





Replacing lost fertilizer



NC STATE UNIVERSITY

Table 5-5. Nitrogen adjustments for leaching

Topsoil Depth	Estimated Water Percolated through Soil	Percentage of Applied Nitrogen to Replace after Transplanting ^a		
		1–3 Weeks	4–5 Weeks	6–7 Weeks
Less than 10 inches to clay	1 inch	0	0	0
	2 inches	20	10	0
	3 or more inches	30	20	0
10 to 16 inches to clay	1 inch	30	20	0
	2 inches	45	30	10
	3 or more inches	60	40	15
17 or more inches to clay	1 inch	50	25	15
	2 inches	75	35	20
	3 or more inches	100	45	25

^a Apply about one pound of potassium (K_2O) for each pound of nitrogen used as a leaching adjustment if the topsoil is deeper than 10 inches.

NC STATE UNIVERSITY

Replacing lost fertilizer

Topsoil depth (inches to clay)	Estimated inches of water percolated through soil	Squaring through 2cd week of bloom	3 rd -4 th week of bloom	>4 th week of bloom
<10	1	0	0	0
	2	20	10	0
	3+	30	20	0
10-16	1	30	20	0
	2	45	30	10
	3+	60	40	15
17 or more	1	50	25	14
	2	75	35	20
	3+	90	45	25



Stressed Cotton

- **Petiole tests are not accurate**
- **Plants will not take up foliar fertilizers**





Late Season Defoliation

- Freeze can help open the crop or can freeze it shut.
- The more moisture in a boll, the more likely a freeze will be detrimental.
- Gramoxone is much like a frost on cotton