

Nachurs Cotton Foliar

Trial ID: 15-Nachurs-CottonFoliar Location: Belvidere, NC Trial Year: 2015
Protocol ID: Investigator: Matt Winslow
Project ID: Study Director: Keith Flaniken
Sponsor Contact:

General Trial Information

Study Director: Keith Flaniken
Investigator: Matt Winslow Title: Director of Research

Discipline: D fertilizer
Trial Status: F one-year/final Trial Reliability: GOOD
Initiation: D5/14/2015
Completion: 10/13/2015

Trial Location

City: Belvidere, NC Country: USA United States
State/Prov: North Carolina
Postal Code: 27919 Climate Zone: EPPOSE EPPO South East
Latitude: 36.3226 N
Longitude: -76.4855 W

Directions:

Directions from Raleigh to Tidewater Ag Research Farm

From Raleigh take 64 East to Williamston
From Williamston take 17 North to Hertford
Follow 17 across Perquimans River
Go thru New Hope Road Intersection
Watch for DOT on left. Turn left just past DOT
Immediately turn right onto Lake Rd and follow for 2 miles
Turn left onto Swamp Road and follow to stop sign (approx. 5 miles)
Turn right onto Sandy Cross and follow for about 5 miles
Just after passing W S Winslow Store turn right onto Turnpike
Tidewater Ag Research Farm is one mile on left.
Office is in a white two story farm house.

Conducted No

Conducted No

Contacts

Study Director: Keith Flaniken
Organization: NACHURS Alpine Solutions

Investigator: Matt Winslow Title: Director of Research
Organization: Tidewater Agronomics, Inc.
Address: 313 Turnpike Road Phone No.: 252-297-2010
City/State: Belvidere, NC Mobile No.: 252-312-8495
Postal Code: 27919 E-mail: matt.winslow@tidewaterag.com
Country: USA United States

Cooperator/Landowner
Cooperator: Stan Winslow Role: FALDOW
Organization: Tidewater Agronomics, Inc.
Address 1: 307 Turnpike Road
City: Belvidere Phone No.: 252-297-2010
State/Prov: NC Fax No.: 252-297-2010
Postal Code: 27919 Mobile No.: 252-333-0212
Country: USA United States E-mail: stan@tidewaterag.com

Crop Description
Crop 1: GOSHI Gossypium hirsutum
Variety: DP1321

BBCH Scale: American upland cotton
BCOT
Planting Date: 5/14/2015

Planting Rate, Unit: 3.5 S/FT
 Depth, Unit: 1 IN
 Row Spacing, Unit: 38 IN
 Planting Method: PLANTD
 Planting Equipment: PP
 Harvest Date: 10/13/2015
 Harvested Width, Unit: 6.34 FT
 Harvested Length, Unit: 30 FT
 Harvest Equipment: 1822
 Weighing Equipment: SC-7
 Soil Temperature, Unit: 72 F
 Soil Moisture: GOOD
 Seed Bed: GOOD

Site and Design
 Treated Plc 6.34 FT
 Treated Plc 30 FT
 Treated Plc 190.2 FT2
 Replication 4
 Untreated INCLUDED
 Treatments: 10
 single control randomized in each block
 Site Type: FIELD
 Experimental Unit: 1 PLOT
 Tillage Type: CONTL
 Study Design: RACOB
 field
 plot
 conventional-till
 Randomized Complete Block (RCB)

Maintenance

No.	Date	Maintenance Product Name	Rate	Rate Unit	Tank Mix
1	4/1/2015	Roundup	32	oz/A	yes
2	4/1/2015	Valor	2	oz/A	yes
3	4/9/2015	10-15-24-8s	300	lb/A	
4	5/14/2015	Prowl	24	oz/A	yes
5	5/14/2015	Cotoran	24	oz/A	yes
6	5/27/2015	Roundup	32	oz/A	yes
7	5/27/2015	Dual	20	oz/A	yes
8	6/3/2015	Dual	24	oz/A	yes
9	6/3/2015	Orthene	8	oz/A	yes
10	6/18/2015	Roundup	32	oz/A	yes
11	6/18/2015	Staple	3.2	oz/A	yes
12	6/24/2015	Sky Raider	6.4	oz/A	yes
13	6/24/2015	Transform	1.5	oz/A	yes
14	6/30/2015	15-0-15	300	lb/A	
15	7/2/2015	Mepex	12	oz/A	yes
16	7/2/2015	Bifenthrin	6.4	oz/A	yes
17	7/8/2015	Bifenthrin	6.4	oz/A	yes
18	7/8/2015	Acephate	8	oz/A	yes
19	7/8/2015	Mepstar	12	oz/A	yes
20	7/9/2015	Suprend	1	lb/A	yes
21	7/9/2015	MSMA	32	oz/A	yes
22	7/13/2015	Pix	16	oz/A	
23	7/22/2015	Bifenthrin	6.4	oz/A	yes
24	7/22/2015	Transform	1.5	oz/A	yes
25	7/22/2015	Zeal	0.85	oz/A	yes
26	7/22/2015	Mepstar	8	oz/A	yes
27	7/28/2015	Solubor	1	lb/A	
28	8/5/2015	Bifenthrin	6.4	oz/A	yes
29	8/5/2015	Transform	1.5	oz/A	yes
30	9/23/2015	Resource	4	oz/A	yes
31	9/23/2015	FreeFall	6	oz/A	yes
32	9/23/2015	Finish	32	oz/A	yes
33	9/23/2015	Prep	16	oz/A	yes

Field Prep./Maintenance:
 Field was tilled and rowed in December 2015

Soil Description
 % OM: 1.959
 pH: 5.9
 CEC: 6.9
 Texture: FSL
 Fert. Level: G
 Soil Drainage: G
 fine sandy loam
 good
 good

Analyzed By:
 Waters Ag Labs 11/6/2014

Moisture and Weather Conditions
 Overall Moisture Conditions: GOOD good

Closest We Elizabeth City, NC

Distance, Unit:

7 MI

No.	Date	Amount	Unit	Type	Description	Min Temp	Max Temp	Temp Unit	Relative Humidity
1	4/29/2015	0	IN	RAIN	rain	50	73	F	62
2	4/30/2015	0.9	IN	RAIN	rain	54	59	F	85
3	5/1/2015	0.1	IN	RAIN	rain	50	58	F	80
4	5/2/2015	0	IN	RAIN	rain	46	69	F	69
5	5/3/2015	0	IN	RAIN	rain	47	78	F	63
6	5/4/2015	0	IN	RAIN	rain	53	80	F	56
7	5/5/2015	0	IN	RAIN	rain	57	80	F	61
8	5/6/2015	0	IN	RAIN	rain	54	75	F	77
9	5/7/2015	0	IN	RAIN	rain	62	77	F	70
10	5/8/2015	0	IN	RAIN	rain	62	73	F	87
11	5/9/2015	0	IN	RAIN	rain	64	80	F	81
12	5/10/2015	0.2	IN	RAIN	rain	70	81	F	82
13	5/11/2015	0.8	IN	RAIN	rain	69	76	F	90
14	5/12/2015	0	IN	RAIN	rain	70	87	F	76
15	5/13/2015	0	IN	RAIN	rain	61	74	F	68
16	5/14/2015	0	IN	RAIN	rain	54	69	F	62
17	5/15/2015	0	IN	RAIN	rain	50	73	F	74
18	5/16/2015	0	IN	RAIN	rain	58	80	F	74
19	5/17/2015	0	IN	RAIN	rain	63	84	F	73
20	5/18/2015	0	IN	RAIN	rain	68	88	F	73
21	5/19/2015	0.7	IN	RAIN	rain	69	88	F	81
22	5/20/2015	0	IN	RAIN	rain	63	76	F	77
23	5/21/2015	0.3	IN	RAIN	rain	59	78	F	80
24	5/22/2015	0	IN	RAIN	rain	54	74	F	66
25	5/23/2015	0	IN	RAIN	rain	55	71	F	65
26	5/24/2015	0	IN	RAIN	rain	54	78	F	70
27	5/25/2015	0	IN	RAIN	rain	59	81	F	70
28	5/26/2015	0	IN	RAIN	rain	61	84	F	74
29	5/27/2015	0	IN	RAIN	rain	70	84	F	73
30	5/28/2015	0	IN	RAIN	rain	69	83	F	71
31	5/29/2015	0	IN	RAIN	rain	63	82	F	79
32	5/30/2015	0	IN	RAIN	rain	65	83	F	79
33	5/31/2015	0	IN	RAIN	rain	65	85	F	76
34	6/1/2015	0	IN	RAIN	rain	69	87	F	78
35	6/2/2015	0	IN	RAIN	rain	68	86	F	78
36	6/3/2015	0.2	IN	RAIN	rain	65	73	F	92
37	6/4/2015	2.4	IN	RAIN	rain	66	80	F	86
38	6/5/2015	0.2	IN	RAIN	rain	65	72	F	90
39	6/6/2015	0	IN	RAIN	rain	61	80	F	81
40	6/7/2015	0	IN	RAIN	rain	63	77	F	68
41	6/8/2015	0	IN	RAIN	rain	56	85	F	76
42	6/9/2015	0	IN	RAIN	rain	71	86	F	75
43	6/10/2015	0	IN	RAIN	rain	69	85	F	76
44	6/11/2015	0	IN	RAIN	rain	72	90	F	76
45	6/12/2015	0	IN	RAIN	rain	73	90	F	73
46	6/13/2015	0	IN	RAIN	rain	73	93	F	73
47	6/14/2015	0	IN	RAIN	rain	73	90	F	82
48	6/15/2015	0	IN	RAIN	rain	71	95	F	73
49	6/16/2015	0	IN	RAIN	rain	75	97	F	67
50	6/17/2015	0	IN	RAIN	rain	74	86	F	69
51	6/18/2015	0.4	IN	RAIN	rain	72	93	F	76
52	6/19/2015	0.1	IN	RAIN	rain	72	92	F	71
53	6/20/2015	0	IN	RAIN	rain	72	90	F	78
54	6/21/2015	0	IN	RAIN	rain	77	93	F	67
55	6/22/2015	0	IN	RAIN	rain	75	91	F	68
56	6/23/2015	0	IN	RAIN	rain	78	94	F	75
57	6/24/2015	0	IN	RAIN	rain	73	86	F	80
58	6/25/2015	2.8	IN	RAIN	rain	69	86	F	74
59	6/26/2015	0	IN	RAIN	rain	69	86	F	78
60	6/27/2015	0.4	IN	RAIN	rain	73	88	F	81
61	6/28/2015	0.1	IN	RAIN	rain	66	84	F	73
62	6/29/2015	0	IN	RAIN	rain	65	84	F	69
63	6/30/2015	0.7	IN	RAIN	rain	71	89	F	72
64	7/1/2015	0	IN	RAIN	rain	71	86	F	73
65	7/2/2015	0	IN	RAIN	rain	72	87	F	72

66	7/3/2015	0.5	IN	RAIN	rain	71	84	F	81
67	7/4/2015	0	IN	RAIN	rain	73	87	F	81
68	7/5/2015	0	IN	RAIN	rain	73	87	F	80
69	7/6/2015	0	IN	RAIN	rain	71	87	F	79
70	7/7/2015	0.4	IN	RAIN	rain	75	90	F	75
71	7/8/2015	0	IN	RAIN	rain	76	89	F	81
72	7/9/2015	0.2	IN	RAIN	rain	73	92	F	75
73	7/10/2015	0.4	IN	RAIN	rain	73	92	F	73
74	7/11/2015	0.9	IN	RAIN	rain	72	87	F	83
75	7/12/2015	0	IN	RAIN	rain	70	83	F	82
76	7/13/2015	0.2	IN	RAIN	rain	69	81	F	87
77	7/14/2015	0	IN	RAIN	rain	70	87	F	83
78	7/15/2015	0	IN	RAIN	rain	71	88	F	74
79	7/16/2015	0	IN	RAIN	rain	71	82	F	79
80	7/17/2015	0	IN	RAIN	rain	70	84	F	77
81	7/18/2015	0.1	IN	RAIN	rain	68	90	F	82
82	7/19/2015	0	IN	RAIN	rain	72	91	F	82
83	7/20/2015	0	IN	RAIN	rain	74	93	F	77
84	7/21/2015	0	IN	RAIN	rain	77	93	F	79
85	7/22/2015	0	IN	RAIN	rain	70	85	F	83
86	7/23/2015	0	IN	RAIN	rain	69	85	F	74
87	7/24/2015	0	IN	RAIN	rain	65	85	F	67
88	7/25/2015	0	IN	RAIN	rain	62	85	F	67
89	7/26/2015	0	IN	RAIN	rain	60	86	F	72
90	7/27/2015	0	IN	RAIN	rain	70	86	F	76
91	7/28/2015	0	IN	RAIN	rain	70	88	F	78
92	7/29/2015	0	IN	RAIN	rain	70	88	F	75
93	7/30/2015	0.3	IN	RAIN	rain	71	90	F	82
94	7/31/2015	0	IN	RAIN	rain	71	88	F	69
95	8/1/2015	0	IN	RAIN	rain	68	90	F	72
96	8/2/2015	0	IN	RAIN	rain	70	92	F	69
97	8/3/2015	0	IN	RAIN	rain	71	87	F	80
98	8/4/2015	0	IN	RAIN	rain	76	90	F	75
99	8/5/2015	0	IN	RAIN	rain	73	94	F	72
100	8/6/2015	2.7	IN	RAIN	rain	70	94	F	74
101	8/7/2015	1	IN	RAIN	rain	72	84	F	85
102	8/8/2015	0	IN	RAIN	rain	70	80	F	84
103	8/9/2015	0	IN	RAIN	rain	65	82	F	69
104	8/10/2015	0	IN	RAIN	rain	65	83	F	79
105	8/11/2015	0	IN	RAIN	rain	71	81	F	88
106	8/12/2015	0	IN	RAIN	rain	67	87	F	74
107	8/13/2015	0	IN	RAIN	rain	64	87	F	71
108	8/14/2015	0	IN	RAIN	rain	65	85	F	76
109	8/15/2015	0	IN	RAIN	rain	59	84	F	74
110	8/16/2015	0	IN	RAIN	rain	60	85	F	79
111	8/17/2015	0	IN	RAIN	rain	66	88	F	77
112	8/18/2015	0	IN	RAIN	rain	70	87	F	78
113	8/19/2015	0.9	IN	RAIN	rain	72	87	F	80
114	8/20/2015	0	IN	RAIN	rain	75	91	F	80
115	8/21/2015	0	IN	RAIN	rain	72	88	F	79
116	8/22/2015	0	IN	RAIN	rain	73	87	F	66
117	8/23/2015	0	IN	RAIN	rain	64	86	F	67
118	8/24/2015	0	IN	RAIN	rain	63	88	F	72
119	8/25/2015	0	IN	RAIN	rain	70	86	F	82
120	8/26/2015	0	IN	RAIN	rain	71	85	F	74
121	8/27/2015	0	IN	RAIN	rain	73	81	F	73
122	8/28/2015	0	IN	RAIN	rain	65	83	F	66
123	8/29/2015	0	IN	RAIN	rain	62	84	F	70
124	8/30/2015	0	IN	RAIN	rain	64	87	F	65
125	8/31/2015	0	IN	RAIN	rain	72	80	F	84
126	9/1/2015	0	IN	RAIN	rain	71	87	F	81
127	9/2/2015	1.1	IN	RAIN	rain	69	91	F	74
128	9/3/2015	0	IN	RAIN	rain	68	89	F	79
129	9/4/2015	0	IN	RAIN	rain	69	90	F	80
130	9/5/2015	0	IN	RAIN	rain	74	84	F	79
131	9/6/2015	0	IN	RAIN	rain	74	85	F	87
132	9/7/2015	4	IN	RAIN	rain	73	86	F	83
133	9/8/2015	0	IN	RAIN	rain	72	87	F	83
134	9/9/2015	1.1	IN	RAIN	rain	74	90	F	78

135	9/10/2015	0	IN	RAIN	rain	70	90	F	75
136	9/11/2015	0.3	IN	RAIN	rain	70	85	F	76
137	9/12/2015	0	IN	RAIN	rain	72	86	F	78
138	9/13/2015	0	IN	RAIN	rain	58	79	F	75
139	9/14/2015	0	IN	RAIN	rain	51	77	F	64
140	9/15/2015	0	IN	RAIN	rain	53	81	F	70
141	9/16/2015	0	IN	RAIN	rain	53	81	F	73
142	9/17/2015	0	IN	RAIN	rain	61	81	F	77
143	9/18/2015	0	IN	RAIN	rain	64	83	F	78
144	9/19/2015	0	IN	RAIN	rain	65	86	F	76
145	9/20/2015	0	IN	RAIN	rain	62	87	F	79
146	9/21/2015	0	IN	RAIN	rain	72	84	F	77
147	9/22/2015	0	IN	RAIN	rain	71	79	F	82
148	9/23/2015	0	IN	RAIN	rain	71	76	F	79
149	9/24/2015	0	IN	RAIN	rain	70	79	F	69
150	9/25/2015	0.7	IN	RAIN	rain	71	74	F	83
151	9/26/2015	0.8	IN	RAIN	rain	67	76	F	81
152	9/27/2015	0.9	IN	RAIN	rain	70	79	F	82
153	9/28/2015	0	IN	RAIN	rain	73	81	F	81
154	9/29/2015	0	IN	RAIN	rain	74	84	F	87
155	9/30/2015	0	IN	RAIN	rain	71	80	F	90
156	10/1/2015	1.2	IN	RAIN	rain	66	72	F	97
157	10/2/2015	1.2	IN	RAIN	rain	66	70	F	95
158	10/3/2015	1.3	IN	RAIN	rain	68	83	F	79
159	10/4/2015	1.1	IN	RAIN	rain	68	74	F	90
160	10/5/2015	0.4	IN	RAIN	rain	62	69	F	83
161	10/6/2015	0	IN	RAIN	rain	60	70	F	82
162	10/7/2015	0	IN	RAIN	rain	54	77	F	79
163	10/8/2015	0	IN	RAIN	rain	55	79	F	71
164	10/9/2015	0	IN	RAIN	rain	59	82	F	76
165	10/10/2015	0	IN	RAIN	rain	62	69	F	80
166	10/11/2015	0	IN	RAIN	rain	58	71	F	79
167	10/12/2015	0	IN	RAIN	rain	58	76	F	82
168	10/13/2015	0	IN	RAIN	rain	62	79	F	74

Application Description

A	B	C	D	E
Applicator 5/14/2015	6/5/2015	6/23/2015	7/17/2015	8/13/2015
Appl. Start Time:	9:00 AM	12:30 PM	10:15 AM	9:00 AM
Appl. Stop Time:	9:10 AM	12:45 PM	10:30 AM	9:15 AM
Applicator SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Applicator ATPLAN	ATEMER	EAPOCR	ATBLOO	POSTBL
Applicator INFURR	BROFOL	BROFOL	BROFOL	BROFOL
Applied By JSweeney	JSweeney	MWInslow	MWInslow	MWInslow
Air Temper 75 F	67 F	94 F	81 F	83 F
% Relative Humidity:		96	59	75
Wind Velocity, Unit:	2 MPH	3.5 MPH	1.5 MPH	0.5 MPH
Soil Tempe 72 F				
Soil Moistu GOOD	GOOD	GOOD	GOOD	GOOD
% Cloud Cover:		95	20	30

Crop Stage At Each Application

A	B	C	D	E
Crop 1 Cod GOSHI BCOT	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT	GOSHI BCOT
Stage Sca BBCH	BBCH	BBCH	BBCH	BBCH
Stage Maj 00 100	13 100	18 100	60 100	65 100

Application Equipment

A	B	C	D	E
Equipment SPPLMO	BACSPR	BACSPR	BACSPR	BACSPR
Operation 20 PSI	20 PSI	20 PSI	20 PSI	20 PSI
Nozzle Typ FLAFAN	FLAFAN	FLAFAN	FLAFAN	FLAFAN
Nozzle Size	80015	80015	80015	80015 80015
Nozzle Spa 38 IN	19 IN	19 IN	19 IN	19 IN
Nozzles/Rc	1	2	2	2 2
Row Sides	4	2	2	2 2
Ground Sp 2.25 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Spray Volu 5 GAL/AC	10 GAL/AC	10 GAL/AC	10 GAL/AC	10 GAL/AC
Mix Size, U2 liters	2 liters	2 liters	2 liters	2 liters

Propellant: COMCO2
Trt No Treatment Application Comment
4 Treatment error: sprayed 309 instead of 31C

COMCO2

COMCO2

COMCO2

COMCO2

Nachurs Cotton Foliar

Trial ID: 15-Nachurs-CottonFoliar Location: Belvidere, NC Trial Year: 2015
 Protocol ID: Investigator: Matt Winslow
 Project ID: Study Director: Keith Flaniken
 Sponsor Contact:

Pest Type							
Pest Code							
Pest Scientific Name							
Pest Name							
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI		
BBCH Scale		BCOT	BCOT	BCOT	BCOT		
Crop Scientific Name		Gossypium hirsutum	Gossypium hirsutum	Gossypium hirsutum	Gossypium hirsutum		
Crop Name		American upland cotton	American upland cotton	American upland cotton	American upland cotton		
Crop Variety							
Description		STAND	STAND	STAND	Height		
Part Rated		PLAEME -	PLAEME -	PLAEME -	PLANT -		
Rating Date		5/21/2015	5/25/2015	5/29/2015	6/3/2015		
Rating Type		STAOBJ	STAOBJ	STAOBJ	HEIGHT		
Rating Unit		NUMBER	NUMBER	NUMBER	cm		
Sample Size, Unit		10 FT	10 FT	10 FT	3 PLANTS		
Collection Basis, Unit							
Number of Subsamples			1	1	1		1
Crop Stage Majority							
Crop Stage Scale							
Crop Density, Unit							
Pest Stage Majority							
Pest Density, Unit							
Footnote Number							
Assessed By							
SE Name							
Rating Timing							
Days After First/Last Applic.		7 7	11 11	15 15	20 20		
Trt-Eval Interval		7 DA-A	11 DA-A	15 DA-A			
Plant-Eval Interval		7 DP-1	11 DP-1	15 DP-1	20 DP-1		
Days After Emergence							
ARM Action Codes							
Sort Order for View							
Number of Decimals							1
Trt Treatment		Rate	Rate	Appl			
No. Name		2 GAL/A	Unit	Code	Plot	1	2
	1 HKW6		in-furrow			35	35
						36	32
						306	33
							38
							39
							10.5
							11.5

			409	33	33	32	9.3
Mean =				35.3	33.3	35.5	10.2
	2 HKW6	2 GAL/A	in-furrow	106	37	40	8.6
	Finish Line	1 QT/A	2-3 leaf	201	32	30	9.3
				303	33	35	11
				408	32	32	10.8
Mean =				33.5	34.3	35.3	9.9
	3 HKW6	2 GAL/A	in-furrow	110	33	35	9.6
	Finish Line	1 QT/A	2-3 leaf	207	34	34	10.3
	K2O-S	2 GAL/A	late pinhead	309	33	33	9.6
				410	35	35	9.3
Mean =				33.8	34.3	33.5	9.7
	4 HKW6	2 GAL/A	in-furrow	103	36	32	10
	Finish Line	1 QT/A	2-3 leaf	210	35	33	10.1
	Aqua-Tech	2 GAL/A	late pinhead	304	30	31	12.1
				402	31	34	8.6
Mean =				33	32.5	34	10.2
	5 HKW6	2 GAL/A	in-furrow	107	33	34	8.5
	Finish Line	1 QT/A	2-3 leaf	206	34	35	11
	K2O-S	1 GAL/A	late pinhead	310	37	37	12.1
	K13	2 GAL/A	1st bloom	407	35	36	10.3
Mean =				34.8	35.5	36.5	10.5
	6 HKW6	2 GAL/A	in-furrow	102	35	34	10.1
	Finish Line	1 QT/A	2-3 leaf	203	30	34	10.5
	K2O-S	1 GAL/A	late pinhead	302	34	33	11
	K13	1 GAL/A	1st bloom	404	33	33	10
	K13	1 GAL/A	E				
Mean =				33	33.5	35.5	10.4
	7 HKW6	2 GAL/A	in-furrow	101	30	37	9
	Finish Line	1 QT/A	2-3 leaf	202	33	32	10.5
	K2O-S	1 GAL/A	late pinhead	305	35	30	10.1
	K13	1 GAL/A	peak bloom	406	33	32	10.1
Mean =				32.8	32.8	34.8	9.9
	8 (Grwr Liquid Std) 19-19-0		2x2	105	34	39	7.8
	15-0-15			209	36	32	9
				308	31	32	11.5
				401	32	38	10
Mean =				33.3	35.3	34	9.6
	9 Dry Fertility Check		preplant	108	31	32	8.5
				205	32	33	10.3
				307	36	35	9.8
				405	32	38	8

Mean =				32.8	34.5	34.3	9.2
10 Dry Fertility Check		preplant	109	38	36	32	7.1
Finish Line	1 QT/A	2-3 leaf	204	36	33	36	9.6
			301	33	33	31	10.1
			403	33	34	40	8.5
Mean =				35	34	34.8	8.8

Crop Code
 GOSHI, BCOT, Gossypium hirsutum, = US
 Part Rated
 PLAEME = plant - emerged
 PLANT = plant
 ROOT = root
 Rating Type
 STAOBJ = stand - objective (based on counts)
 HEIGHT = height
 WEIGHT = weight
 YIELD = yield
 PERCEN = percent
 Rating Unit
 NUMBER = number
 cm = centimeter
 g = gram
 kg = kilogram
 LB = pound
 lb/ac = pounds per acre
 % = percent

FT = foot
 Plant-Eval Interval
 7 DP-1 = 1 GOSHI 5/14/2015
 11 DP-1 = 1 GOSHI 5/14/2015
 15 DP-1 = 1 GOSHI 5/14/2015
 20 DP-1 = 1 GOSHI 5/14/2015
 63 DP-1 = 1 GOSHI 5/14/2015
 153 DP-1 = 1 GOSHI 5/14/2015
 155 DP-1 = 1 GOSHI 5/14/2015
 ARM Action Codes
 TY1 = 504.9099*[C6]

GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton
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Root Mass ROOT - 7/16/2015 WEIGHT g 5 PLANTS	Weight 10/14/2015 WEIGHT kg	Total Weight 10/16/2015 WEIGHT g	Seed Weight 10/16/2015 WEIGHT g	Yield 10/14/2015 YIELD LB	Yield with Gin Out 10/14/2015 YIELD lb/ac	Turnout 10/14/2015 PERCEN %
---	--	---	--	--	--	--

1	1	1	1	1	1	1	1
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63 23	153 62	155 64	155 64	153 62	153 62	153 62
63 DP-1	153 DP-1	155 DP-1	155 DP-1	153 DP-1	153 DP-1	153 DP-1

TY1

1	1	1	1
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5	6	7	8	9	10	11
48	7.4	592	308	3711.1	1781.3	48
63	7			3534.4	1696.5	48
82	7.6			3837.3	1841.9	48

83	6.4			3206.2	1539	48
69	7.1	592	308	3572.2	1714.7	48
62	7.3	452	237	3660.6	1742.4	47.6
61	7.7			3887.8	1850.6	47.6
56	7.3			3660.6	1742.4	47.6
66	5.5			2777	1321.9	47.6
61.3	6.9	452	237	3496.5	1664.3	47.6
85	7.7	586	310	3862.6	1819.3	47.1
59	7.6			3812.1	1795.5	47.1
75	6			3029.5	1426.9	47.1
66	7.1			3584.9	1688.5	47.1
71.3	7.1	586	310	3572.2	1682.5	47.1
63	7.5	601	313	3786.8	1813.9	47.9
70	6.8			3408.1	1632.5	47.9
79	7.7			3887.8	1862.3	47.9
57	7.5			3761.6	1801.8	47.9
67.3	7.4	601	313	3711.1	1777.6	47.9
54	7	652	339	3509.1	1684.4	48
68	7.2			3635.4	1745	48
66	8.1			4089.8	1963.1	48
58	5.7			2852.7	1369.3	48
61.5	7	652	339	3521.7	1690.4	48
51	7.5	627	340	3761.6	1722.8	45.8
64	8.1			4064.5	1861.6	45.8
64	7.5			3761.6	1722.8	45.8
45	7.2			3635.4	1665	45.8
56	7.5	627	340	3805.8	1743	45.8
61	7.8	540	275	3938.3	1933.7	49.1
61	7.7			3887.8	1908.9	49.1
59	7.6			3837.3	1884.1	49.1
47	6.2			3130.4	1537	49.1
57	7.3	540	275	3698.5	1815.9	49.1
60	7.5	402	215	3761.6	1749.1	46.5
71	6.7			3357.7	1561.3	46.5
85	7			3509.1	1631.7	46.5
71	8.9			4468.5	2077.8	46.5
71.8	7.5	402	215	3774.2	1755	46.5
61	6.8	580	317	3408.1	1543.9	45.3
63	7.3			3685.8	1669.7	45.3
64	6.8			3433.4	1555.3	45.3
34	7.1			3559.6	1612.5	45.3

55.5	7	580	317	3521.7	1595.4	45.3
71	7	438	227	3509.1	1691.4	48.2
81	7.7			3862.6	1861.8	48.2
69	8.3			4190.8	2019.9	48.2
43	7.3			3660.6	1764.4	48.2
66	7.5	438	227	3805.8	1834.4	48.2

Nachurs Cotton Foliar

Trial ID: 15-Nachurs-CottonFoliar Location: Belvidere, NC Trial Year: 2015
 Protocol ID: Investigator: Matt Winslow
 Project ID: Study Director: Keith Flaniken
 Sponsor Contact:

Pest Type								
Pest Code								
Pest Scientific Name								
Pest Name								
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI				
BBCH Scale	BCOT	BCOT	BCOT	BCOT				
Crop Scientific Name	Gossypium hirsutum	Gossypium hirsutum	Gossypium hirsutum	Gossypium hirsutum				
Crop Name	American upland cotton	American upland cotton	American upland cotton	American upland cotton				
Crop Variety								
Description	STAND	STAND	STAND	Height				
Part Rated	PLAEME -	PLAEME -	PLAEME -	PLANT -				
Rating Date	5/21/2015	5/25/2015	5/29/2015	6/3/2015				
Rating Type	STAOBJ	STAOBJ	STAOBJ	HEIGHT				
Rating Unit	NUMBER	NUMBER	NUMBER	cm				
Sample Size, Unit	10 FT	10 FT	10 FT	3 PLANTS				
Collection Basis, Unit								
Number of Subsamples		1	1	1				
Crop Stage Majority								
Crop Stage Scale								
Crop Density, Unit								
Pest Stage Majority								
Pest Density, Unit								
Footnote Number								
Assessed By								
SE Name								
Rating Timing								
Days After First/Last Applic.	7 7	11 11	15 15	20 20				
Trt-Eval Interval	7 DA-A	11 DA-A	15 DA-A					
Plant-Eval Interval	7 DP-1	11 DP-1	15 DP-1	20 DP-1				
Days After Emergence								
ARM Action Codes								
Sort Order for View								
Number of Decimals								
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code				
					1	2	3	4
1	HKW6	2 GAL/A		in-furrow	35.3 a	33.3 abc	35.5 ab	10.2 a
2	HKW6	2 GAL/A		in-furrow	33.5 a	34.3 abc	35.3 ab	9.9 ab

Finish Line	1 QT/A	2-3 leaf					
3 HKW6	2 GAL/A	in-furrow	33.8 a	34.3 abc	33.5 b	9.7 abc	
Finish Line	1 QT/A	2-3 leaf					
K2O-S	2 GAL/A	late pinhead					
4 HKW6	2 GAL/A	in-furrow	33 a	32.5 c	34 ab	10.2 a	
Finish Line	1 QT/A	2-3 leaf					
Aqua-Tech	2 GAL/A	late pinhead					
5 HKW6	2 GAL/A	in-furrow	34.8 a	35.5 a	36.5 a	10.5 a	
Finish Line	1 QT/A	2-3 leaf					
K2O-S	1 GAL/A	late pinhead					
K13	2 GAL/A	1st bloom					
6 HKW6	2 GAL/A	in-furrow	33 a	33.5 abc	35.5 ab	10.4 a	
Finish Line	1 QT/A	2-3 leaf					
K2O-S	1 GAL/A	late pinhead					
K13	1 GAL/A	1st bloom					
K13	1 GAL/A	peak bloom					
7 HKW6	2 GAL/A	in-furrow	32.8 a	32.8 bc	34.8 ab	9.9 ab	
Finish Line	1 QT/A	2-3 leaf					
K2O-S	1 GAL/A	late pinhead					
K13	1 GAL/A	peak bloom					
8 (Grwr Liquid Std) 19-19-0		2x2	33.3 a	35.3 ab	34 ab	9.6 abc	
15-0-15							
9 Dry Fertility Check		preplant	32.8 a	34.5 abc	34.3 ab	9.2 bc	
10 Dry Fertility Check		preplant	35 a	34 abc	34.8 ab	8.8 c	
Finish Line	1 QT/A	2-3 leaf					
LSD P=.10			2.62	2.63	2.72	0.95	
Standard Deviation			2.18	2.18	2.26	0.79	
CV			6.46	6.43	6.5	7.99	
Replicate F			0.66	2.994	1.615	11.871	
Replicate Prob(F)			0.5836	0.0483	0.2091	0.0001	
Treatment F			0.77	0.82	0.638	1.876	
Treatment Prob(F)			0.6441	0.6031	0.7547	0.0998	

Means followed by same letter do not significantly differ (P=.10, LSD)

Crop Code

GOSHI, BCOT, Gossypium hirsutum, = US

Part Rated

PLAEME = plant - emerged

PLANT = plant

ROOT = root

Rating Type

STAOBJ = stand - objective (based on counts)

HEIGHT = height

WEIGHT = weight

YIELD = yield

PERCEN = percent

Rating Unit

NUMBER = number

cm = centimeter

g = gram

kg = kilogram

LB = pound

lb/ac = pounds per acre

% = percent

FT = foot

Plant-Eval Interval

7 DP-1 = 1 GOSHI 5/14/2015

11 DP-1 = 1 GOSHI 5/14/2015

15 DP-1 = 1 GOSHI 5/14/2015

20 DP-1 = 1 GOSHI 5/14/2015

63 DP-1 = 1 GOSHI 5/14/2015

153 DP-1 = 1 GOSHI 5/14/2015

155 DP-1 = 1 GOSHI 5/14/2015

ARM Action Codes

TY1 = 504.9099*[C6]

GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	GOSHI BCOT Gossypium hirsutum American upland cotton	
Root Mass ROOT - 7/16/2015 WEIGHT g 5 PLANTS	Weight 10/14/2015 WEIGHT kg	Total Weight 10/16/2015 WEIGHT g	Seed Weight 10/16/2015 WEIGHT g	Yield 10/14/2015 YIELD LB	Yield with Gin Out 10/14/2015 YIELD lb/ac	Turnout 10/14/2015 PERCEN %	
1	1	1	1	1	1	1	
63 23	153 62	155 64	155 64	153 62	153 62	153 62	
63 DP-1	153 DP-1	155 DP-1	155 DP-1	153 DP-1	153 DP-1	153 DP-1	
				TY1			
		1			1	1	
	5	6	7	8	9	10	
	69 ab 61.3 abc	7.1 a 6.9 a	592 452	308 237	3572.2 a 3496.5 a	1714.7 ab 1664.3 ab	48 a 47.6 a

71.3 a	7.1 a	586	310	3572.2 a	1682.5 ab	47.1 a
67.3 abc	7.4 a	601	313	3711.1 a	1777.6 ab	47.9 a
61.5 abc	7 a	652	339	3521.7 a	1690.4 ab	48 a
56 c	7.5 a	627	340	3805.8 a	1743 ab	45.8 a
57 bc	7.3 a	540	275	3698.5 a	1815.9 a	49.1 a
71.8 a	7.5 a	402	215	3774.2 a	1755 ab	46.5 a
55.5 c	7 a	580	317	3521.7 a	1595.4 b	45.3 a
66 abc	7.5 a	438	227	3805.8 a	1834.4 a	48.2 a
12.42	0.85 .	.		428.14	203.15	0
10.31	0.7 .	.		355.54	168.7	0
16.2	9.75 .	.		9.75	9.77	0
2.93	1.209			1.209	1.271	0
0.0516	0.3254			0.3254	0.3042	1
1.462	0.487			0.487	0.746	0
0.212	0.8703			0.8703	0.6647	1

Nachurs Cotton Foliar

Trial ID: 15-Nachurs-CottonFoliar	Location: Belvidere, NC	Trial Year: 2015
Protocol ID:	Investigator: Matt Winslow	
Project ID:	Study Director: Keith Flaniken	
	Sponsor Contact:	

Trial Map Treatment Description

Trt	Code	Description
	1	HKW6 2 GAL/A
	2	HKW6 2 GAL/A;Finish Line 1 QT/A
	3	HKW6 2 GAL/A;Finish Line 1 QT/A;K2O-S 2 GAL/A
	4	HKW6 2 GAL/A;Finish Line 1 QT/A;Aqua-Tech 2 GAL/A
	5	HKW6 2 GAL/A;Finish Line 1 QT/A;1 GAL/A;K13 2 GAL/A
	6	HKW6 2 GAL/A;Finish Line 1 QT/A;K2O-S 1 GAL/A;K13 1 GAL/A;K13 1 GAL/A
	7	HKW6 2 GAL/A;Finish Line 1 QT/A;K2O-S 1 GAL/A;K13 1 GAL/A
	8	19-19-0 1 GAL/A;15-0-15
	9 CHK	Dry Fertility Check
	10	Dry Fertility Check;Finish Line 1 QT/A

