

Tidewater Ag. Res. & Ext. Ctr.

Impact of N rates on various PGR strategies

Trial ID: PGR0805
 Location: Res Farm F1

Study Dir.:
 Investigator: Dr. Joel C. Faircloth

Part Rated	PLANT	PLANT	INTRND	NODES	PLANT
Rating Data Type	STAND	HEIGHT	LENGTH	AVG/10 PLT	HEIGHT
Rating Unit	10 FT/RW	IN	IN	#	IN
Rating Date	31-May-2005	07-Jul-2005	07-Jul-2005	07-Jul-2005	18-Jul-2005
Treatment No. Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code

TABLE OF A MEANS

1	N	L	65	LB/A			28.6 a	17.2 a	3.1 a	9.7 b	29.9 a	
2	N	L	110	LB/A			28.6 a	17.3 a	2.9 b	10.2 a	30.0 a	
							LSD (.05)	2.7	0.4	0.1	0.4	1.9

TABLE OF B MEANS

1	Pentia	0.82	SL	16	OZ/A	MEB	A	28.8 a	17.3	3.0	9.9	29.8 a
1	Induce	L		0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce	L		0.25	% V/V	10-14 DA EB	D					
2	Pentia	0.82	SL	16	OZ/A	EB	B	28.8 a	.	.	.	29.9 a
2	Induce	L		0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce	L		0.25	% V/V	10-14 DA EB	D					
3	Pentia	0.82	SL	5	OZ/A	LRM	C	28.1 a	.	.	.	29.9 a
3	Induce	L		0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce	L		0.25	% V/V	10-14 DA EB	D					
4	No PGR							28.8 a	.	.	.	30.4 a
								LSD (.05)	1.8			1.1

TABLE OF AB MEANS

1	N	L	65	LB/A				28.9	17.2	3.1	9.7	29.8
1	Pentia	0.82	SL	16	OZ/A	MEB	A					
1	Induce	L		0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce	L		0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				28.8	17.3	2.9	10.2	29.8
1	Pentia	0.82	SL	16	OZ/A	MEB	A					
1	Induce	L		0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce	L		0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A				28.4	.	.	.	29.3
2	Pentia	0.82	SL	16	OZ/A	EB	B					
2	Induce	L		0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce	L		0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				29.1	.	.	.	30.5
2	Pentia	0.82	SL	16	OZ/A	EB	B					
2	Induce	L		0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce	L		0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A				29.1	.	.	.	29.8
3	Pentia	0.82	SL	5	OZ/A	LRM	C					
3	Induce	L		0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce	L		0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				27.0	.	.	.	30.0
3	Pentia	0.82	SL	5	OZ/A	LRM	C					
3	Induce	L		0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce	L		0.25	% V/V	10-14 DA EB	D					

1	N	L	65	LB/A	28.1	.	.	.	31.0
4	No			PGR					
2	N	L	110	LB/A	29.5	.	.	.	29.8
4	No			PGR					
LSD (.05)					2.6	0.8	0.2	0.8	1.6

Impact of N rates on various PGR strategies

Trial ID: PGR0805

Study Dir.:

Location: Res Farm F1

Investigator: Dr. Joel C. Faircloth

Part Rated	INTRND	PLANT	INTRND	NAWF	NAWF
Rating Data Type	LENGTH	HEIGHT	LENGTH	AVG/10 PLT	AVG/10 PLT
Rating Unit	IN	IN	IN	#	#
Rating Date	18-Jul-2005	28-Jul-2005	28-Jul-2005	28-Jul-2005	10-Aug-2005

Treatment No.	Form Name	Form Conc	Form Rate Unit	Grow Stg	Appl Code					
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TABLE OF A MEANS

1	N	L	65	LB/A			2.8 a	33.0	3.1	5.6 a	3.3 a
2	N	L	110	LB/A			2.8 a	32.7	3.1	5.6 a	3.1 a
						LSD (.05)	0.2	1.7	0.2	0.9	0.4

TABLE OF B MEANS

1	Pentia	0.82	SL	16	OZ/A	MEB	A	2.8 a	31.5	2.9	5.3 bc	2.9 b
1	Induce	L	0.25	% V/V	MEB	A						
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce	L	0.25	% V/V	10-14 DA EB	D						
2	Pentia	0.82	SL	16	OZ/A	EB	B	2.8 a	31.8	3.0	5.2 c	2.8 b
2	Induce	L	0.25	% V/V	EB	B						
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce	L	0.25	% V/V	10-14 DA EB	D						
3	Pentia	0.82	SL	5	OZ/A	LRM	C	2.8 a	33.1	3.1	5.7 b	3.0 b
3	Induce	L	0.25	% V/V	LRM	C						
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce	L	0.25	% V/V	10-14 DA EB	D						
4	No PGR							2.9 a	35.0	3.4	6.2 a	4.1 a
							LSD (.05)	0.1	1.0	0.2	0.5	0.4

TABLE OF AB MEANS

1	N	L	65	LB/A			2.8	31.9 d	2.9 d	5.3	2.8
1	Pentia	0.82	SL	16	OZ/A	MEB	A				
1	Induce	L	0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D				
1	Induce	L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A			2.7	31.2 d	2.9 d	5.4	2.9
1	Pentia	0.82	SL	16	OZ/A	MEB	A				
1	Induce	L	0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D				
1	Induce	L	0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A			2.7	31.7 d	2.9 d	5.2	3.0
2	Pentia	0.82	SL	16	OZ/A	EB	B				
2	Induce	L	0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D				
2	Induce	L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A			2.9	31.9 d	3.1 c	5.2	2.5
2	Pentia	0.82	SL	16	OZ/A	EB	B				
2	Induce	L	0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D				
2	Induce	L	0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A			2.8	32.5 cd	3.0 cd	5.5	3.0
3	Pentia	0.82	SL	5	OZ/A	LRM	C				
3	Induce	L	0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D				
3	Induce	L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A			2.8	33.6 bc	3.3 b	5.8	3.1
3	Pentia	0.82	SL	5	OZ/A	LRM	C				
3	Induce	L	0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D				
3	Induce	L	0.25	% V/V	10-14 DA EB	D					

1	N	L	65	LB/A	2.9	35.8 a	3.5 a	6.4	4.3
4	No PGR								
2	N	L	110	LB/A	2.9	34.2 b	3.3 b	5.9	4.0
4	No PGR								
LSD (.05)					0.2	1.5	0.2	0.7	0.6

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Study Dir.:
Investigator: Dr. Joel C. Faircloth

Part Rated	PLANT	NACB	LINT	FIBER	FIBER
Rating Data Type	HEIGHT	AVG 10PLT	YIELD	QUALITY	QUALITY
Rating Unit	IN	#	LB/A	MIKE	LEN.
Rating Date	15-Aug-2005	29-Sep-2005	20-Oct-2005	29-Dec-2005	29-Dec-2005
Treatment	Form	Form Rate	Grow	Appl	
No. Name	Conc	Type Unit	Stg	Code	

TABLE OF A MEANS

1	N	L	65	LB/A			36.7	1.6 b	1727.1 b	4.7 a	1.13 a
2	N	L	110	LB/A			36.2	1.7 a	1801.8 a	4.7 a	1.14 a
							LSD (.05)	2.7	0.1	37.2	0.2

TABLE OF B MEANS

1	Pentia	0.82	SL	16	OZ/A	MEB	A	34.1	1.1 c	1680.9 b	4.8 a	1.13 b
1	Induce		L	0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce		L	0.25	% V/V	10-14 DA EB	D					
2	Pentia	0.82	SL	16	OZ/A	EB	B	34.8	1.0 c	1874.9 a	4.8 a	1.14 a
2	Induce		L	0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce		L	0.25	% V/V	10-14 DA EB	D					
3	Pentia	0.82	SL	5	OZ/A	LRM	C	35.9	1.8 b	1777.9 ab	4.7 ab	1.14 a
3	Induce		L	0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce		L	0.25	% V/V	10-14 DA EB	D					
4	No PGR							40.9	2.7 a	1724.2 b	4.6 b	1.13 b
								LSD (.05)	1.4	0.5	134.4	0.1

TABLE OF AB MEANS

1	N	L	65	LB/A				34.2 d	1.0	1702.5	4.8	1.13
1	Pentia	0.82	SL	16	OZ/A	MEB	A					
1	Induce		L	0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce		L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				34.0 d	1.3	1659.4	4.8	1.13
1	Pentia	0.82	SL	16	OZ/A	MEB	A					
1	Induce		L	0.25	% V/V	MEB	A					
1	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
1	Induce		L	0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A				34.6 cd	1.1	1769.8	4.9	1.15
2	Pentia	0.82	SL	16	OZ/A	EB	B					
2	Induce		L	0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce		L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				35.1 cd	0.8	1980.1	4.8	1.14
2	Pentia	0.82	SL	16	OZ/A	EB	B					
2	Induce		L	0.25	% V/V	EB	B					
2	Pentia	0.82	SL	8	OZ/A	10-14 DA EB	D					
2	Induce		L	0.25	% V/V	10-14 DA EB	D					
1	N	L	65	LB/A				35.4 cd	1.5	1704.3	4.7	1.13
3	Pentia	0.82	SL	5	OZ/A	LRM	C					
3	Induce		L	0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce		L	0.25	% V/V	10-14 DA EB	D					
2	N	L	110	LB/A				36.5 c	2.2	1851.5	4.8	1.15
3	Pentia	0.82	SL	5	OZ/A	LRM	C					
3	Induce		L	0.25	% V/V	LRM	C					
3	Pentia	0.82	SL	4	OZ/A	10-14 DA EB	D					
3	Induce		L	0.25	% V/V	10-14 DA EB	D					

1	N	L	65	LB/A	42.5	a	2.9	1732.0	4.5	1.13
4	No			PGR						
2	N	L	110	LB/A	39.2	b	2.6	1716.4	4.7	1.13
4	No			PGR						
LSD (.05)					2.1		0.7	190.1	0.3	0.2

Tidewater Ag. Res. & Ext. Ctr.

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Trial ID: PGR0805
 Location: Res Farm F1

Study Dir.:
 Investigator: Dr. Joel C. Faircloth

Part Rated							FIBER	FIBER
Rating Data Type							QUALITY	QUALITY
Rating Unit							STR.	UNI.
Rating Date							29-Dec-2005	29-Dec-2005

Treatment No.	Form Name	Form Conc	Form Rate Type	Grow Stg	Appl Code			
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TABLE OF A MEANS

1	N		L	65	LB/A			28.3 a	84.0 a
2	N		L	110	LB/A			28.1 a	83.9 a
						LSD (.05)		0.7	0.4

TABLE OF B MEANS

1	Pentia	0.82	SL	16	OZ/A	MEB		A	28.4 a	84.0 a
1	Induce		L	0.25	% V/V	MEB		A		
1	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
1	Induce		L	0.25	% V/V	10-14	DA	EB	D	
2	Pentia	0.82	SL	16	OZ/A	EB		B	28.2 a	83.9 a
2	Induce		L	0.25	% V/V	EB		B		
2	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
2	Induce		L	0.25	% V/V	10-14	DA	EB	D	
3	Pentia	0.82	SL	5	OZ/A	LRM		C	27.9 a	84.0 a
3	Induce		L	0.25	% V/V	LRM		C		
3	Pentia	0.82	SL	4	OZ/A	10-14	DA	EB	D	
3	Induce		L	0.25	% V/V	10-14	DA	EB	D	
4	No PGR								28.3 a	83.8 a
						LSD (.05)		0.9	0.4	

TABLE OF AB MEANS

1	N		L	65	LB/A				28.8	83.8 ab
1	Pentia	0.82	SL	16	OZ/A	MEB		A		
1	Induce		L	0.25	% V/V	MEB		A		
1	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
1	Induce		L	0.25	% V/V	10-14	DA	EB	D	
2	N		L	110	LB/A				28.1	84.1 ab
1	Pentia	0.82	SL	16	OZ/A	MEB		A		
1	Induce		L	0.25	% V/V	MEB		A		
1	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
1	Induce		L	0.25	% V/V	10-14	DA	EB	D	
1	N		L	65	LB/A				28.2	84.4 a
2	Pentia	0.82	SL	16	OZ/A	EB		B		
2	Induce		L	0.25	% V/V	EB		B		
2	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
2	Induce		L	0.25	% V/V	10-14	DA	EB	D	
2	N		L	110	LB/A				28.3	83.4 b
2	Pentia	0.82	SL	16	OZ/A	EB		B		
2	Induce		L	0.25	% V/V	EB		B		
2	Pentia	0.82	SL	8	OZ/A	10-14	DA	EB	D	
2	Induce		L	0.25	% V/V	10-14	DA	EB	D	
1	N		L	65	LB/A				27.9	83.9 ab
3	Pentia	0.82	SL	5	OZ/A	LRM		C		
3	Induce		L	0.25	% V/V	LRM		C		
3	Pentia	0.82	SL	4	OZ/A	10-14	DA	EB	D	
3	Induce		L	0.25	% V/V	10-14	DA	EB	D	
2	N		L	110	LB/A				28.0	84.2 a
3	Pentia	0.82	SL	5	OZ/A	LRM		C		
3	Induce		L	0.25	% V/V	LRM		C		
3	Pentia	0.82	SL	4	OZ/A	10-14	DA	EB	D	
3	Induce		L	0.25	% V/V	10-14	DA	EB	D	

1	N	L	65	LB/A	28.4	83.8 ab
4	No					
	PGR					
2	N	L	110	LB/A	28.1	83.8 ab
4	No					
	PGR					
				LSD (.05)	1.2	0.8

Tidewater Ag. Res. & Ext. Ctr.

Impact of N rates on various PGR strategies

Trial ID: PGR0805

Study Dir.:

Location: Res Farm F1

Investigator: Dr. Joel C. Faircloth

Crop 1: GOSHI COTTON
Planting Date: 09-May-2005

Variety: DP 445 BG/RR

SITE AND DESIGN
Plot Width, Unit: 12 FT Plot Length, Unit: 30 FT Reps: 4
Study Design: SPLIT-PLOT

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Form Rate
1.	11-Apr-2005	GlyStar Original	41	SL	1	QT/A
2.	11-May-2005	Prowl H2O	3.8	EC	1.5	PT/A
3.	11-May-2005	Cotoran	4	L	1	QT/A
4.	26-May-2005	MON 3539	4.5	SL	16	OZ/A
5.	26-May-2005	Orthene 97	97	WG	6	OZ/A
6.	08-Jun-2005	MON 3539	4.5	SL	18	OZ/A
7.	24-Jun-2005	Nitrogen 30%		L	30	UNITS/A
8.	24-Jun-2005	Boron		L	1	QT/A
9.	11-Jul-2005	Caparol	4	L	1.5	PT/A
10.	11-Jul-2005	MSMA	6	EC	1	QT/A
11.	11-Jul-2005	Envoke	75	WG	0.15	OZ/A
12.	11-Jul-2005	Induce		L	1	PT/100 GAL
13.	11-Aug-2005	Baythroid	2	EC	4	OZ/A
14.	29-Sep-2005	Finish 6 Pro	6	EC	1	QT/A
15.	29-Sep-2005	Def	6	EC	6	OZ/A
16.	29-Sep-2005	Dropp SC	4	SC	1.6	OZ/A

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	18-Jul-2005	18-Jul-2005	18-Jul-2005	28-Jul-2005
Time of Day:	1:20 PM	1:20 PM	1:20 PM	2:15 PM
Application Method:	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing:	MEB	EB	LRM	10-14DAEB
Applic. Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Air Temp., Unit:	96 F	96 F	96 F	84 F
% Relative Humidity:	62	62	62	92
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH	3 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temp., Unit:	80 F	80 F	80 F	81 F
Soil Moisture:	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
% Cloud Cover:	5	5	5	10

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	GOSHI	GOSHI	GOSHI	GOSHI
Stage Scale:	10-12 NOD	10-12 NOD	10-12 NOD	NOD
Height, Unit:	28 IN	28 IN	28 IN	38 IN

APPLICATION EQUIPMENT

	A	B	C	D
Appl. Equipment:	TRACTOR	TRACTOR	TRACTOR	BACKPACK
Operating Pressure:	32 PSI	32 PSI	32 PSI	26 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN	TEEJET
Nozzle Size:	XR8002VS	XR8002VS	XR8002VS	8002VS
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN
Boom Length, Unit:	12 FT	12 FT	12 FT	54 IN
Boom Height, Unit:	38 IN	38 IN	38 IN	40 IN
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH	3 MPH
Carrier:	WATER	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA
Propellant:	COMP. AIR	COMP. AIR	COMP. AIR	CO2
Tank Mix (Y/N):	Y	Y	Y	Y

Trt No Treatment Application Comment

* 27-Jun-05 applied N at different rates + Boron 10% 1 QT/A