

Tidewater Ag. Res. & Ext. Ctr.

5 Year Rotation Study (year 3)

Trial ID: R0105

Study Dir.:

Location: Wynne Farm

Crop: OTHER

Investigator: Dr. Joel C. Faircloth

Part Rated	pH	OM	SAND	SILT	CLAY	NEMATO	NEMATO		
Rating Data Type	ppm	%	%	%	%	ROOTKNOT	STUNT		
Rating Unit									
Rating Date	14-Apr-2005	14-Apr-2005	20-Apr-2005	20-Apr-2005	20-Apr-2005	04-May-2005	04-May-2005		
Entry No.	Entry Name	Appl Code							
1	Cotton		6.6 ab	1.2 a	81.5 a	12.9 a	15.7 a	95.0 b	72.5 bc
2	Corn		6.6 a	1.2 a	83.1 a	11.3 a	5.6 a	82.5 b	42.5 bc
3	Peanuts		6.4 b	1.0 a	82.5 a	12.1 a	5.4 a	50.0 b	27.5 c
4	Tall Fescue		6.0 c	1.1 a	82.8 a	11.6 a	5.6 a	90.0 b	141.5 ab
5	Orchardgrass		5.7 d	1.1 a	81.8 a	12.2 a	6.1 a	150.0 b	135.0 ab
6	Tall Fescue		6.0 c	1.1 a	81.6 a	12.1 a	6.4 a	162.5 b	100.0 bc
7	Orchardgrass		5.7 d	1.1 a	81.7 a	12.1 a	6.3 a	300.0 a	212.5 a
8	Cotton		6.6 ab	1.0 a	82.4 a	11.5 a	6.2 a	375.0 a	97.5 bc
LSD (P=.05)			0.22	0.31	2.08	1.69	9.94	131.86	102.32
Standard Deviation			0.15	0.21	1.41	1.15	6.76	89.65	69.37
CV			2.38	19.25	1.72	9.58	94.59	54.96	66.94
Grand Mean			6.2	1.1	82.15	11.97	7.14	163.13	103.63

Means followed by same letter do not significantly differ (P=.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Part Rated	NEMATO	NEMATO	NEMATO	NEMATO	NEMATO	NEMATO	NEMATO		
Rating Data Type	RING	STUBBYROOT	ROOTKNOT	STUNT	RING	STUBBYROOT	ROOTKNOT		
Rating Unit									
Rating Date	04-May-2005	04-May-2005	18-Aug-2005	18-Aug-2005	18-Aug-2005	18-Aug-2005	01-Nov-2005		
Entry No.	Entry Name	Appl Code							
1	Cotton		192.5 abc	185.0 c	35.0 a	95.0 a	140.0 bc	190.0 bc	10.0 b
2	Corn		157.5 bc	107.5 c	15.0 a	75.0 a	77.5 c	130.0 cd	20.0 b
3	Peanuts		290.0 ab	162.5 c	26.7 a	10.0 a	420.0 a	35.0 d	6387.5 a
4	Tall Fescue		110.0 c	247.5 bc	25.0 a	93.3 a	52.5 c	175.0 bc	30.0 b
5	Orchardgrass		322.5 a	445.0 a	32.5 a	42.5 a	160.0 bc	310.0 a	43.3 b
6	Tall Fescue		92.5 c	222.5 c	40.0 a	47.5 a	97.5 bc	247.5 ab	45.0 b
7	Orchardgrass		297.5 ab	402.5 ab	40.0 a	120.0 a	242.5 b	352.5 a	102.5 b
8	Cotton		180.0 abc	137.5 c	37.5 a	40.0 a	127.5 bc	115.0 cd	25.0 b
LSD (P=.05)			155.19	175.14	22.09	71.20	153.35	110.51	1931.15
Standard Deviation			105.52	119.08	14.74	47.49	104.26	74.67	1253.36
CV			51.39	49.88	46.85	72.6	63.31	38.42	150.48
Grand Mean			205.31	238.75	31.46	65.42	164.69	194.38	832.92

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Part Rated	NEMATO	NEMATO	NEMATO	PLANT	LINT	FIBER	FIBER		
Rating Data Type	STUNT	RING	STUBBYROOT	STAND	YIELD	QUALITY	QUALITY		
Rating Unit				10 FT/RW	LB/A	MIKE	LEN.		
Rating Date	01-Nov-2005	01-Nov-2005	01-Nov-2005	23-May-2005	05-Oct-2005	11-Dec-2005	11-Dec-2005		
Entry No.	Entry Name	Appl Code							
1	Cotton		34.6 a	180.0 b	112.5 cd	23.0 a	1563.6 a	4.5 a	1.20 a
2	Corn		112.5 a	52.5 b	125.0 cd				
3	Peanuts		21.3 a	1057.5 a	83.8 d				
4	Tall Fescue		92.5 a	47.5 b	222.5 cd				
5	Orchardgrass		75.4 a	80.0 b	420.0 ab				
6	Tall Fescue		41.4 a	87.5 b	255.0 bc				
7	Orchardgrass		82.5 a	210.0 b	482.5 a				
8	Cotton		72.5 a	82.5 b	112.5 cd	22.1 a	1632.7 a	4.5 a	1.20 a
LSD (P=.05)			101.71	299.35	169.23	7.70	153.27	0.42	0.038
Standard Deviation			68.17	203.53	114.73	3.42	68.12	0.19	0.017
CV			102.39	90.59	50.6	15.16	4.26	4.16	1.41
Grand Mean			66.58	224.69	226.73	22.56	1598.19	4.5	1.2

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Part Rated	FIBER	FIBER	PLANT	GRADE	GRADE	GRADE	
Rating Data Type	QUALITY	QUALITY	STAND	FAN	ELK	SMK	
Rating Unit	STR.	UNI.	10 FT/RW	LB/A	%	%	
Rating Date	11-Dec-2005	11-Dec-2005	06-Jun-2005	29-Sep-2005	29-Sep-2005	29-Sep-2005	
Entry No.	Entry Name	Appl Code					
1	Cotton		31.2 a	85.3 a			
2	Corn						
3	Peanuts		28.6	3532.3	92.8	56.8	68.3
4	Tall Fescue						
5	Orchardgrass						
6	Tall Fescue						
7	Orchardgrass						
8	Cotton		31.5 a	85.6 a			
LSD (P=.05)	2.98	1.76	.	.	.	.	.
Standard Deviation	1.32	0.78
CV	4.23	0.91
Grand Mean	31.35	85.4	28.63	3532.26	92.75	56.75	68.25

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Part Rated	GRADE	GRADE	GRADE	YIELD	YIELD	YIELD
Rating Data Type	SS	OK	DK	BU/A	LB DM/A	LB DM/A
Rating Unit	%	%	%			
Rating Date	29-Sep-2005	29-Sep-2005	29-Sep-2005	07-Sep-2005	04-May-2005	04-May-2005
Entry No.	Entry Name	Appl Code				
1	Cotton					
2	Corn			125.5		
3	Peanuts	0.0	1.0	0.8		
4	Tall Fescue					4993.5 a
5	Orchardgrass				4296.5 a	
6	Tall Fescue					5240.5 a
7	Orchardgrass				4604.5 a	
8	Cotton					
LSD (P=.05)	.	.	.	.	754.46	860.37
Standard Deviation	335.31	382.38
CV	7.53	7.47
Grand Mean	0.0	1.0	0.75	125.46	4450.5	5117.0

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Crop 1: ZEAMX CORN, FIELD Variety: Pioneer 33M54
 Planting Date: 05-Apr-2005

Crop 2: GOSHI COTTON, SHORT STAPLE Variety: DP 451 BG/RR
 Planting Date: 27-Apr-2005

Crop 3: ARHHY PEANUT Variety: VA 98R
 Planting Date: 18-May-2005

Crop 4: DACGL ORCHARDGRASS Variety: WP 300
 Planting Date: 22-Mar-2004
 Rate: 15 LB/A

Crop 5: FESAR FESCUE, TALL Variety: Max Q
 Planting Date: 22-Mar-2004
 Rate: 20 LB/A

SITE AND DESIGN

Plot Width, Unit: 24 FT Plot Length, Unit: 40 FT Reps: 4
 Study Design: RANDOMIZED COMPLETE BLOCK

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit
1.	05-Apr-2005	CORN 6-16-39				6.6	LB/PLOT
2.	11-Apr-2005	CORN 10-34-0				10	GAL/A
3.	11-Apr-2005	CORN Sulfur				1	GAL/A
4.	11-Apr-2005	CORN Guardsman	5		SL	3	PT/A
5.	18-Apr-2005	COTTON 9-15-36				7.3	LB/PLOT
6.	20-Apr-2005	PEANUT Prowl	3.3		EC	1.5	PT/A
7.	21-Apr-2005	PEANUT Metam				1	7.5 GAL/A
8.	21-Apr-2005	PEANUT Dual Magnum	7.62		EC	1	PT/A
9.	28-Apr-2005	COTTON Prowl H2O	3.8		EC	1.5	PT/A
10.	28-Apr-2005	COTTON Cotoran	4		L	1	QT/A
11.	13-May-2005	GRASSES 5-15-20				15	LB/PLOT
12.	26-May-2005	COTTON Orthene	97		WG	6	OZ/A
13.	20-Jun-2005	COTTON Nitrogen 30%			L	30	UNITS/A
14.	20-Jun-2005	COTTON Boron			L	1	QT/A
15.	22-Jun-2005	PEANUT PeanutMaker Landplaster				1500	LB/A
16.	06-Jul-2005	COTTON Nitrogen 30%			L	30	UNITS/A
17.	06-Jul-2005	COTTON Boron			L	1	QT/A
18.	07-Jul-2005	COTTON Caparol	4		L	1.5	PT/A
19.	07-Jul-2005	COTTON MSMA	6		EC	1	QT/A
20.	07-Jul-2005	COTTON Envoke	75		WG	0.15	OZ/A
21.	07-Jul-2005	COTTON Induce			L	1	PT/100 GAL
22.	13-Jul-2005	COTTON Pix Plus	0.35		SL	8	OZ/A
23.	19-Jul-2005	PEANUT Folicur	3.6		F	8	OZ/A
24.	19-Jul-2005	PEANUT Boron 10%			L	1	QT/A
25.	19-Jul-2005	PEANUT Manganese 7%			L	1	QT/A
26.	19-Jul-2005	PEANUT Danitol	2.4		EC	6	OZ/A
27.	21-Jul-2005	COTTON Pix Plus	0.35		SL	12	OZ/A
28.	21-Jul-2005	COTTON Induce			L	1	PT/100 GAL
29.	03-Aug-2005	PEANUT Folicur	3.6		F	8	OZ/A
30.	03-Aug-2005	PEANUT Boron 10%			L	1	QT/A
31.	03-Aug-2005	PEANUT Manganese 7%			L	1	QT/A
32.	03-Aug-2005	PEANUT Induce			L	2	OZ/A
33.	12-Aug-2005	COTTON Baythroid	2		EC	4	OZ/A
34.	20-Sep-2005	PEANUT Bravo WeatherStik	6		SC	1.5	PT/A
35.	22-Sep-2005	COTTON Finish 6 Pro	6		EC	1	QT/A
36.	22-Sep-2005	COTTON Def	6		EC	6	OZ/A
37.	22-Sep-2005	COTTON Dropp	50		WP	0.10	LB/A