

# North Carolina State University

## INVESTIGATION OF ANTAGONISM WITH REVOLVER AND 2,4-D AMINE AT VARIOUS APPLICATION TIMES

Trial ID: 04-GER02  
Location: Lake Wheeler TFL

Study Director: Gerald Henry  
Investigator: Fred Yelverton

### General Trial Information

<b>Study Director:</b> Gerald Henry	<b>Title:</b> Graduate Student
<b>Affiliation:</b> North Carolina State University	
<b>Postal Code:</b> 27695	
<b>Investigator:</b> Fred Yelverton	<b>Title:</b> Professor
<b>Affiliation:</b> North Carolina State University	
<b>Postal Code:</b> 27695	

### Trial Location

<b>City:</b> Raleigh	<b>Trial Status:</b>	Initiated
<b>State/Prov.:</b> NC		
<b>Postal Code:</b> 27695	<b>Initiation Date:</b>	6-11-04
<b>Country:</b> USA		
<b>Directions:</b>		

**Objectives:**

**Conclusions:**

### Cooperator/Landowner

<b>Cooperator:</b> BILL WHALEY	<b>Country:</b> USA
<b>Organization:</b> NORTH CAROLINA STATE UNIVERSITY	<b>Phone No:</b> 919.515.3509
<b>Address 1:</b> 3720 LAKE WHEELER RD	
<b>City:</b> RALEIGH	
<b>State/Prov:</b> NC	
<b>Postal Code:</b> 27603	

### Crop Description

<b>Crop 1:</b> CYNDA Cynodon dactylon	Bermuda grass
<b>Variety:</b> Tifway 419	
<b>BBCH Scale:</b> BGRM	

### Pest Description

<b>Pest 1 Type:</b> W	<b>Code:</b> LOLPE	Lolium perenne
<b>Common Name:</b> Ryegrass, perennial		

### Site and Design

<b>Plot Width, Unit:</b> 4	FT	
<b>Plot Length, Unit:</b> 6	FT	
<b>Replications:</b> 4		<b>Study Design:</b> Randomized Complete Block

**Trial Initiation Comments:**

**Field Prep./Maintenance:**

### Moisture Conditions

**Overall Moisture Conditions:** Irrigated as needed

### Application Description

	A	B	C	D	E	F	G
<b>Application Date:</b>	6-11-04	6-13-04	6-15-04	6-16-04	6-17-04	6-19-04	6-21-04
<b>Time of Day:</b>	2:15 PM	2:00 PM	1:15 PM	2:00 PM	1:15 PM	3:00 PM	2:00 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	JUNE 11	JUNE 13	JUNE 15	JUNE 16	JUNE 17	JUNE 19	JUNE 21
<b>Application Placement:</b>	FOLIAR	FOLIAR	FOLIAR	FOLIAR	FOLIAR	FOLIAR	FOLIAR
<b>Applied By:</b>	GERALD	GERALD	GERALD	GERALD	GERALD	GERALD	GERALD
<b>Air Temperature, Unit:</b>	92 F	78 F	84 F	89 F	92 F	89 F	80 F
<b>% Relative Humidity:</b>	80	79	83	85	91	90	90
<b>Wind Velocity, Unit:</b>	4 MPH	0 MPH	3 MPH	3 MPH	3 MPH	4 MPH	5 MPH
<b>Dew Presence (Y/N):</b>	N	N	N	N	N	N	N
<b>Soil Moisture:</b>	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE	ADEQUATE
<b>% Cloud Cover:</b>	50	80	50	10	50	50	50



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Pest Code				CYNDA	CYNDA	CYNDA					
Crop Code				BGRM	BGRM	BGRM					
BBCH Scale				Bermuda grass	Bermuda grass	Bermuda grass					
Crop Name				6-23-04	6-26-04	6-30-04					
Rating Date				PHYTO	PHYTO	PHYTO					
Rating Data Type				%	%	%					
Rating Unit				2	5	9					
Days After Last Applic.				12 DA-A	15 DA-A	19 DA-A					
Trt-Eval Interval											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code			
1	REVOLVER	0.19	SC	0.4 fl oz/1000 ft2			JUNE 16 D		5.0 c	0.0 a	0.0 a
2	WEEDAR 64 X-77	3.8	L	1 pt/a 0.25 % v/v			JUNE 16 D JUNE 16 D		10.0 a	0.0 a	0.0 a
3	WEEDAR 64 X-77	3.8	L	1 qt/a 0.25 % v/v			JUNE 16 D JUNE 16 D		10.0 a	0.0 a	0.0 a
4	REVOLVER (T/M) WEEDAR 64 X-77	0.19 3.8	SC L	0.4 fl oz/1000 ft2 1 pt/a 0.25 % v/v			JUNE 16 D JUNE 16 D JUNE 16 D		6.3 bc	0.0 a	0.0 a
5	REVOLVER (T/M) WEEDAR 64 X-77	0.19 3.8	SC L	0.4 fl oz/1000 ft2 1 qt/a 0.25 % v/v			JUNE 16 D JUNE 16 D JUNE 16 D		5.0 c	0.0 a	0.0 a
6	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 11 A JUNE 11 A JUNE 16 D		7.5 abc	0.0 a	0.0 a
7	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 11 A JUNE 11 A JUNE 16 D		6.3 bc	0.0 a	0.0 a
8	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 13 B JUNE 13 B JUNE 16 D		6.3 bc	0.0 a	0.0 a
9	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 13 B JUNE 13 B JUNE 16 D		5.0 c	0.0 a	0.0 a
10	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 15 C JUNE 15 C JUNE 16 D		7.5 abc	0.0 a	0.0 a
11	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 15 C JUNE 15 C JUNE 16 D		6.3 bc	0.0 a	0.0 a
12	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 17 E JUNE 17 E JUNE 16 D		10.0 a	0.0 a	0.0 a
13	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 17 E JUNE 17 E JUNE 16 D		10.0 a	0.0 a	0.0 a
14	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 19 F JUNE 19 F JUNE 16 D		10.0 a	0.0 a	0.0 a
15	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 19 F JUNE 19 F JUNE 16 D		8.8 ab	0.0 a	0.0 a
16	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 21 G JUNE 21 G JUNE 16 D		10.0 a	0.0 a	0.0 a
17	WEEDAR 64 X-77 REVOLVER	3.8 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 21 G JUNE 21 G JUNE 16 D		10.0 a	0.0 a	0.0 a
18	WEEDAR 64 (NOT T/M) X-77 REVOLVER	3.8 L 0.19	L SC	1 pt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 16 D JUNE 16 D JUNE 16 D		6.3 bc	2.5 a	0.0 a
19	WEEDAR 64 (NOT T/M) X-77 REVOLVER	3.8 L 0.19	L SC	1 qt/a 0.25 % v/v 0.4 fl oz/1000 ft2			JUNE 16 D JUNE 16 D JUNE 16 D		5.0 c	0.0 a	0.0 a

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Pest Code	CYNDA	CYNDA	CYNDA
Crop Code	BGRM	BGRM	BGRM
BBCH Scale	Bermuda grass	Bermuda grass	Bermuda grass
Crop Name	6-23-04	6-26-04	6-30-04
Rating Date	PHYTO	PHYTO	PHYTO
Rating Data Type	%	%	%
Rating Unit	2	5	9
Days After Last Applic.	12 DA-A	15 DA-A	19 DA-A
Trt-Eval Interval			
Trt Treatment	Form Form	Rate	Other Other
No. Name	Conc Type	Rate Unit	Rate Rate
20 NONTREATED	Unit	Stage	Appl Code
	0.0 d	0.0 a	0.0 a
LSD (P=.05)	2.62	1.58	0.00
Standard Deviation	1.85	1.12	0.00
CV	25.51	894.43	0.0
Grand Mean	7.25	0.13	0.0
Bartlett's X2	1.482	0.0	0.0
P(Bartlett's X2)	0.993	.	.
Friedman's X2	40.6	0.679	0.0
P(Friedman's X2)	0.003	1.00	1.00
Replicate F	1.705	1.000	0.000
Replicate Prob(F)	0.1762	0.3995	1.0000
Treatment F	8.192	1.000	0.000
Treatment Prob(F)	0.0001	0.4750	1.0000

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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Pest Code				CYNDA	CYNDA	LOLPE	LOLPE	
Crop Code				BGRM	BGRM			
BBCH Scale				Bermuda grass	Bermuda grass			
Crop Name				7-7-04	7-14-04	6-23-04	6-26-04	
Rating Date				PHYTO	PHYTO	CONTROL	CONTROL	
Rating Data Type				%	%	%	%	
Rating Unit				16	23	2	5	
Days After Last Applic.				26 DA-A	33 DA-A	12 DA-A	15 DA-A	
Trt-Eval Interval								
Trt No.	Treatment Name	Form Conc	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code
1	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
2	WEEDAR 64	3.8 L	1 pt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
3	WEEDAR 64	3.8 L	1 qt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
4	REVOLVER (T/M)	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
	WEEDAR 64	3.8 L	1 pt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
5	REVOLVER (T/M)	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
	WEEDAR 64	3.8 L	1 qt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
6	WEEDAR 64	3.8 L	1 pt/a				JUNE 11 A	0.0 a
	X-77	L	0.25 % v/v				JUNE 11 A	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
7	WEEDAR 64	3.8 L	1 qt/a				JUNE 11 A	0.0 a
	X-77	L	0.25 % v/v				JUNE 11 A	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
8	WEEDAR 64	3.8 L	1 pt/a				JUNE 13 B	0.0 a
	X-77	L	0.25 % v/v				JUNE 13 B	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
9	WEEDAR 64	3.8 L	1 qt/a				JUNE 13 B	0.0 a
	X-77	L	0.25 % v/v				JUNE 13 B	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
10	WEEDAR 64	3.8 L	1 pt/a				JUNE 15 C	0.0 a
	X-77	L	0.25 % v/v				JUNE 15 C	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
11	WEEDAR 64	3.8 L	1 qt/a				JUNE 15 C	0.0 a
	X-77	L	0.25 % v/v				JUNE 15 C	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
12	WEEDAR 64	3.8 L	1 pt/a				JUNE 17 E	0.0 a
	X-77	L	0.25 % v/v				JUNE 17 E	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
13	WEEDAR 64	3.8 L	1 qt/a				JUNE 17 E	0.0 a
	X-77	L	0.25 % v/v				JUNE 17 E	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
14	WEEDAR 64	3.8 L	1 pt/a				JUNE 19 F	0.0 a
	X-77	L	0.25 % v/v				JUNE 19 F	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
15	WEEDAR 64	3.8 L	1 qt/a				JUNE 19 F	0.0 a
	X-77	L	0.25 % v/v				JUNE 19 F	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
16	WEEDAR 64	3.8 L	1 pt/a				JUNE 21 G	0.0 a
	X-77	L	0.25 % v/v				JUNE 21 G	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
17	WEEDAR 64	3.8 L	1 qt/a				JUNE 21 G	0.0 a
	X-77	L	0.25 % v/v				JUNE 21 G	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
18	WEEDAR 64 (NOT T/M)	3.8 L	1 pt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a
19	WEEDAR 64 (NOT T/M)	3.8 L	1 qt/a				JUNE 16 D	0.0 a
	X-77	L	0.25 % v/v				JUNE 16 D	0.0 a
	REVOLVER	0.19 SC	0.4 fl oz/1000 ft <sup>2</sup>				JUNE 16 D	0.0 a

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Trial ID: 04-GER02

Study Director: Gerald Henry

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Investigator: Fred Yelverton

Pest Code		CYNDA		CYNDA		LOLPE		LOLPE			
Crop Code		BGRM		BGRM							
BBCH Scale		Bermuda grass		Bermuda grass							
Crop Name		7-7-04		7-14-04		6-23-04		6-26-04			
Rating Date		PHYTO		PHYTO		CONTROL		CONTROL			
Rating Data Type		%		%		%		%			
Rating Unit		16		23		2		5			
Days After Last Applic.		26 DA-A		33 DA-A		12 DA-A		15 DA-A			
Trt-Eval Interval											
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl			
No.	Name	Conc	Type	Rate	Unit	Rate	Rate	Unit	Stage		
Code											
	20 NONTREATED			0.0	a	0.0	a	0.0	d	0.0	e
	LSD (P=.05)			0.00		0.00		5.30		6.28	
	Standard Deviation			0.00		0.00		3.75		4.44	
	CV			0.0		0.0		21.8		7.31	
	Grand Mean			0.0		0.0		17.19		60.75	
	Bartlett's X2			0.0		0.0		19.162		6.892	
	P(Bartlett's X2)			.		.		0.159		0.985	
	Friedman's X2			0.0		0.0		36.629		64.596	
	P(Friedman's X2)			1.00		1.00		0.009		0.001	
	Replicate F			0.000		0.000		3.999		1.056	
	Replicate Prob(F)			1.0000		1.0000		0.0118		0.3752	
	Treatment F			0.000		0.000		16.581		134.980	
	Treatment Prob(F)			1.0000		1.0000		0.0001		0.0001	

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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					LOLPE	LOLPE	LOLPE	
					6-30-04	7-7-04	7-14-04	
					CONTROL	CONTROL	CONTROL	
					%	%	%	
					9	16	23	
					19 DA-A	26 DA-A	33 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code
1	REVOLVER	0.19	SC	0.4 fl oz/1000 ft <sup>2</sup>			JUNE 16 D	83.8 a
2	WEEDAR 64 X-77	3.8	L	1 pt/a 0.25 % v/v			JUNE 16 D JUNE 16 D	10.0 f 6.3 d
3	WEEDAR 64 X-77	3.8	L	1 qt/a 0.25 % v/v			JUNE 16 D JUNE 16 D	2.5 g 1.3 e
4	REVOLVER (T/M) WEEDAR 64 X-77	0.19	SC	0.4 fl oz/1000 ft <sup>2</sup>			JUNE 16 D JUNE 16 D JUNE 16 D	78.8 a-d 90.0 a 95.0 a
5	REVOLVER (T/M) WEEDAR 64 X-77	0.19	SC	0.4 fl oz/1000 ft <sup>2</sup>			JUNE 16 D JUNE 16 D JUNE 16 D	81.3 abc 90.0 a 95.0 a
6	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 11 A JUNE 11 A JUNE 16 D	76.3 cd 90.0 a 95.0 a
7	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 11 A JUNE 11 A JUNE 16 D	75.0 d 88.8 a 93.8 a
8	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 13 B JUNE 13 B JUNE 16 D	80.0 a-d 90.0 a 95.0 a
9	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 13 B JUNE 13 B JUNE 16 D	77.5 bcd 88.8 a 95.0 a
10	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 15 C JUNE 15 C JUNE 16 D	81.3 abc 88.8 a 95.0 a
11	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 15 C JUNE 15 C JUNE 16 D	77.5 bcd 87.5 a 95.0 a
12	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 17 E JUNE 17 E JUNE 16 D	57.5 e 60.0 c 87.5 a
13	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 17 E JUNE 17 E JUNE 16 D	57.5 e 60.0 c 88.8 a
14	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 19 F JUNE 19 F JUNE 16 D	57.5 e 66.3 b 92.5 a
15	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 19 F JUNE 19 F JUNE 16 D	57.5 e 66.3 b 93.8 a
16	WEEDAR 64 X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 21 G JUNE 21 G JUNE 16 D	62.5 e 66.3 b 91.3 a
17	WEEDAR 64 X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 21 G JUNE 21 G JUNE 16 D	62.5 e 67.5 b 92.5 a
18	WEEDAR 64 (NOT T/M) X-77 REVOLVER	3.8	L	1 pt/a 0.25 % v/v			JUNE 16 D JUNE 16 D JUNE 16 D	80.0 a-d 88.8 a 95.0 a
19	WEEDAR 64 (NOT T/M) X-77 REVOLVER	3.8	L	1 qt/a 0.25 % v/v			JUNE 16 D JUNE 16 D JUNE 16 D	82.5 ab 87.5 a 95.0 a

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								LOLPE	LOLPE	LOLPE	
Pest Code											
Crop Code											
BBCH Scale											
Crop Name											
Rating Date								6-30-04	7-7-04	7-14-04	
Rating Data Type								CONTROL	CONTROL	CONTROL	
Rating Unit								%	%	%	
Days After Last Applic.								9	16	23	
Trt-Eval Interval								19 DA-A	26 DA-A	33 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code			
20	NONTREATED								0.0 g	0.0 e	33.8 c
LSD (P=.05)								5.72	3.95	8.43	
Standard Deviation								4.05	2.80	5.96	
CV								6.52	4.07	6.87	
Grand Mean								62.06	68.69	86.81	
Bartlett's X2								4.994	6.394	44.124	
P(Bartlett's X2)								0.998	0.846	0.001*	
Friedman's X2								65.857	63.404	44.096	
P(Friedman's X2)								0.001	0.001	0.001	
Replicate F								1.241	2.067	1.228	
Replicate Prob(F)								0.3033	0.1148	0.3078	
Treatment F								174.765	482.987	32.893	
Treatment Prob(F)								0.0001	0.0001	0.0001	

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.

Trial Comments