

Tidewater Ag. Res. & Ext. Ctr.

Evaluation of Gramoxone Inteon in Peanuts

Trial ID: P0405
 Protocol ID:
 Location: Res Farm F23

Study Director:
 Investigator: Dr. Joel C. Faircloth

Pest Code	Pest Name	Part Rated	Rating Data Type	Rating Unit	Rating Date	PLANT		CROP		AMBEL	CYPES
						STAND	INJURY	WEED	CONTROL	CONTROL	
						10 FT/RW	%	30-Jun-2005	%	30-Jun-2005	Ragweed Nutsedge, yellow
						08-Jun-2005		30-Jun-2005			30-Jun-2005
Trt No.	Treatment Name	Form	Form Conc	Rate	Rate Unit	Growth Stage	Appl Code				
1	Untreated					28.9 a		0.0 c		0.0 c	0.0 b
2	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	30.8 a		27.5 b		85.0 b	87.5 a
2	Induce	L		0.25 % V/V	AC-28d A						
3	Gramoxone Inteon	2 SL		12 FL OZ/A	AC-28d A	29.1 a		72.5 a		96.3 a	87.5 a
3	Induce	L		0.25 % V/V	AC-28d A						
4	Gramoxone Inteon	2 SL		16 FL OZ/A	AC-28d A	31.0 a		60.0 a		97.5 a	91.3 a
4	Induce	L		0.25 % V/V	AC-28d A						
5	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	27.1 a		25.0 bc		100.0 a	97.5 a
5	Basagran	4 SL		1 PT/A	AC-28d A						
5	Induce	L		0.25 % V/V	AC-28d A						
6	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	31.0 a		16.3 bc		100.0 a	86.3 a
6	Basagran	4 SL		1 PT/A	AC-28d A						
6	Dual MAGNUM	7.62 EC		1.33 PT/A	AC-28d A						
7	Gramoxone Max	3 SL		5.4 FL OZ/A	AC-28d A	28.5 a		25.0 bc		87.5 b	95.0 a
7	Induce	L		0.25 % V/V	AC-28d A						
	LSD (P=.05)					3.81		26.95		5.23	16.36
	Standard Deviation					2.57		18.14		3.52	11.01
	CV					8.7		56.12		4.35	14.15
	Grand Mean					29.48		32.32		80.89	77.86

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				CHEAL	DIGSA	AMBEL
Pest Name				Lambsquarters	Crabgrass, large	Ragweed
Part Rated				WEED	WEED	CROP
Rating Data Type				CONTROL	CONTROL	INJURY
Rating Unit				%	%	%
Rating Date				30-Jun-2005	30-Jun-2005	07-Jul-2005
Trt Treatment No. Name	Form Form	Rate	Growth Appl			
	Conc Type	Rate Unit	Stage Code			
1 Untreated				0.0 b	0.0 c	0.0 d
2 Gramoxone Inteon	2 SL	8 FL OZ/A	AC-28d A	1.3 b	26.3 bc	27.5 b
2 Induce	L	0.25 % V/V	AC-28d A			80.0 b
3 Gramoxone Inteon	2 SL	12 FL OZ/A	AC-28d A	30.0 b	31.3 bc	45.0 a
3 Induce	L	0.25 % V/V	AC-28d A			77.5 b
4 Gramoxone Inteon	2 SL	16 FL OZ/A	AC-28d A	2.5 b	73.8 ab	27.5 b
4 Induce	L	0.25 % V/V	AC-28d A			88.8 ab
5 Gramoxone Inteon	2 SL	8 FL OZ/A	AC-28d A	75.0 a	87.5 a	15.0 c
5 Basagran	4 SL	1 PT/A	AC-28d A			93.8 a
5 Induce	L	0.25 % V/V	AC-28d A			
6 Gramoxone Inteon	2 SL	8 FL OZ/A	AC-28d A	78.8 a	93.8 a	12.5 c
6 Basagran	4 SL	1 PT/A	AC-28d A			90.0 ab
6 Dual MAGNUM	7.62 EC	1.33 PT/A	AC-28d A			
7 Gramoxone Max	3 SL	5.4 FL OZ/A	AC-28d A	6.3 b	92.5 a	15.0 c
7 Induce	L	0.25 % V/V	AC-28d A			82.5 ab
LSD (P=.05)				33.61	50.03	12.13
Standard Deviation				22.63	33.67	8.16
CV				81.74	58.2	40.11
Grand Mean				27.68	57.86	20.36

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Pest Code				CHEAL	CYPES	DIGSA	
Pest Name				Lambsquarters	Nutsedge, yellow	Crabgrass, large	
Part Rated				WEED	WEED	WEED	CROP
Rating Data Type				CONTROL	CONTROL	CONTROL	INJURY
Rating Unit				%	%	%	%
Rating Date				07-Jul-2005	07-Jul-2005	07-Jul-2005	19-Jul-2005
Trt Treatment No. Name	Form Conc	Form Type	Rate Rate Unit	Growth Stage	Appl Code		
1 Untreated				0.0 b	0.0 c	0.0 b	0.0 b
2 Gramoxone Inteon	2 SL		8 FL OZ/A AC-28d A	0.0 b	90.0 ab	25.0 b	0.0 b
2 Induce	L		0.25 % V/V AC-28d A				
3 Gramoxone Inteon	2 SL		12 FL OZ/A AC-28d A	0.0 b	87.5 ab	25.0 b	6.3 a
3 Induce	L		0.25 % V/V AC-28d A				
4 Gramoxone Inteon	2 SL		16 FL OZ/A AC-28d A	0.0 b	86.3 ab	97.5 a	6.3 a
4 Induce	L		0.25 % V/V AC-28d A				
5 Gramoxone Inteon	2 SL		8 FL OZ/A AC-28d A	47.5 a	95.0 a	88.8 a	0.0 b
5 Basagran	4 SL		1 PT/A AC-28d A				
5 Induce	L		0.25 % V/V AC-28d A				
6 Gramoxone Inteon	2 SL		8 FL OZ/A AC-28d A	2.5 b	100.0 a	91.3 a	0.0 b
6 Basagran	4 SL		1 PT/A AC-28d A				
6 Dual MAGNUM	7.62 EC		1.33 PT/A AC-28d A				
7 Gramoxone Max	3 SL		5.4 FL OZ/A AC-28d A	0.0 b	76.3 b	92.5 a	1.3 b
7 Induce	L		0.25 % V/V AC-28d A				
LSD (P=.05)				31.28	13.90	41.38	2.39
Standard Deviation				21.05	9.36	27.85	1.61
CV				294.75	12.25	46.42	81.76
Grand Mean				7.14	76.43	60.0	1.96

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 Investigator: Dr. Joel C. Faircloth

Pest Code				CHEAL	AMBEL	DIGSA	CYPES
Pest Name				Lambsquarters	Ragweed	Crabgrass, large	Nutsedge, yellow
Part Rated				WEED	WEED	WEED	WEED
Rating Data Type				CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit				%	%	%	%
Rating Date				19-Jul-2005	19-Jul-2005	19-Jul-2005	19-Jul-2005
Trt No.	Treatment Name	Form	Form	Rate	Growth	Appl	
		Conc	Type	Rate	Stage	Code	
1	Untreated				0.0 b	0.0 b	0.0 d
2	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	0.0 b	71.3 a
2	Induce	L		0.25 % V/V	AC-28d A		51.3 c
3	Gramoxone Inteon	2 SL		12 FL OZ/A	AC-28d A	0.0 b	77.5 a
3	Induce	L		0.25 % V/V	AC-28d A		56.3 bc
4	Gramoxone Inteon	2 SL		16 FL OZ/A	AC-28d A	0.0 b	81.3 a
4	Induce	L		0.25 % V/V	AC-28d A		92.5 a
5	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	47.5 a	70.0 a
5	Basagran	4 SL		1 PT/A	AC-28d A		87.5 ab
5	Induce	L		0.25 % V/V	AC-28d A		85.0 bc
6	Gramoxone Inteon	2 SL		8 FL OZ/A	AC-28d A	0.0 b	77.5 a
6	Basagran	4 SL		1 PT/A	AC-28d A		77.5 abc
6	Dual MAGNUM	7.62 EC		1.33 PT/A	AC-28d A		100.0 a
7	Gramoxone Max	3 SL		5.4 FL OZ/A	AC-28d A	0.0 b	63.8 a
7	Induce	L		0.25 % V/V	AC-28d A		87.5 ab
	LSD (P=.05)				30.88	17.79	33.18
	Standard Deviation				20.79	11.98	22.33
	CV				306.35	19.0	34.55
	Grand Mean				6.79	63.04	64.64
							12.10
							8.15
							11.1
							73.39

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Crop Description

Crop 1: ARHHY Arachis hypogaea Peanut
 Variety: VA 98R
 BBCH Scale: BPNT
 Planting Date: 18-May-2005
 Emergence Date: 30-May-2005

Pest Description

Pest 1 Type: W Code: AMBEL Ambrosia artemisiifolia
 Common Name: Ragweed
 Pest 2 Type: W Code: CHEAL Chenopodium album
 Common Name: Lambsquarters, common
 Pest 3 Type: W Code: CYPES Cyperus esculentus
 Common Name: Nutsedge, yellow
 Pest 4 Type: W Code: ECLAL Eclipta alba
 Common Name: Eclipta
 Pest 5 Type: W Code: IPOLA Ipomoea lacunosa
 Common Name: Morningglory, pitted
 Pest 6 Type: W Code: MOLVE Mollugo verticillata
 Common Name: Carpetweed
 Pest 7 Type: W Code: DIGSA Digitaria sanguinalis
 Common Name: Crabgrass, large

Site and Design

Plot Width, Unit: 12 FT
 Plot Length, Unit: 30 FT
 Replications: 4 Study Design: Randomized Complete Block

Trial Initiation Comments:

Maintenance

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit
1.	20-Apr-2005	Metam				7.5	GAL/A
2.	22-Jun-2005	Peanut Maker Landplaster				1500	LB/A
3.	19-Jul-2005	Folicur	3.6		F	8	OZ/A
4.	19-Jul-2005	Boron 10%			L	1	QT/A
5.	19-Jul-2005	Managanese 7%			L	1	QT/A
6.	19-Jul-2005	Danitol	2.4		EC	6	OZ/A
7.	03-Aug-2005	Folicur	3.6		F	8	OZ/A
8.	03-Aug-2005	Boron 10%			L	1	QT/A
9.	03-Aug-2005	Manganese 7%			L	1	QT/A
10.	03-Aug-2005	Induce			L	2	OZ/A

Field Prep./Maintenance:

Soil Description

% Sand: 81.6 % OM: 0.6 Texture: LOAMY SAND
 % Silt: 14.3 pH: 5.55
 % Clay: 4.1

Application Description

A
 Application Date: 22-Jun-2005
 Time of Day: 1:00 PM
 Application Method: SPRAY
 Application Timing: AC-28days
 Application Placement: BROFOL
 Applied By: Horton, D.
 Air Temperature, Unit: 86 F
 % Relative Humidity: 64
 Wind Velocity, Unit: 4 MPH
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 85 F
 Soil Moisture: INADEQUAT
 % Cloud Cover: 40

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Crop Stage At Each Application

A

Crop 1 Code, BBCH Scale: ARHHY BPNT
Diameter, Unit: 8 IN

Pest Stage At Each Application

A

Pest 1 Code, Disc., Scale: AMBEL W
Height, Unit: 20 IN
Height Minimum, Maximum: 1 20
Pest 2 Code, Disc., Scale: CHEAL W
Height, Unit: 18 IN
Height Minimum, Maximum: 1 18
Pest 3 Code, Disc., Scale: CYPES W
Height, Unit: 8 IN
Height Minimum, Maximum: 1 8
Pest 4 Code, Disc., Scale: ECLAL W
Height, Unit: 3 IN
Height Minimum, Maximum: 1 3
Pest 5 Code, Disc., Scale: IPOLA W
Coverage, Unit: 3 LF
Pest 6 Code, Disc., Scale: MOLVE W
Diameter, Unit: 2 IN
Pest 7 Code, Disc., Scale: DIGSA W
Diameter, Unit: 3 IN

Application Equipment

A

Appl. Equipment: TRACTOR
Operating Pressure: 32
Pressure Unit: PSI
Nozzle Type: FLAT FAN
Nozzle Size: XR8002VS
Nozzle Spacing, Unit: 18 IN
Boom Length, Unit: 12 FT
Boom Height, Unit: 24 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume: 15
Volume Unit: GAL/AC
Propellant: COMP. AIR
Tank Mix (Y/N): Y