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Wheat and annual ryegrass response to Far-Go.

Trial ID: Wheat4-06

Study Dir.: Stanley Culpepper

Location: Plains

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 30 feet

Spray vol: 14.8 gal/ac

Mix size: 1.5 liters (min .92602)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
										1	2	3	4
1	Far-Go	4	EC	1.5	QT/A	PPI	A	38.0 ml/mx		101	205	301	404
2	Far-Go	10	G	15	LB/A	PPI	A	28.12 g/1 pl		102	203	302	401
3	Far-Go(just ahead plant)	4	EC	1.5	QT/A	Preplant	A	38.0 ml/mx		103	202	306	402
4	Far-Go	4	EC	1.5	QT/A	PRE	B	38.0 ml/mx		104	206	303	406
5	Far-Go	10	G	15	LB/A	PRE	B	28.12 g/1 pl		105	204	305	403
6	Non-treated									106	201	304	405

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
95.007	ml	Far-Go	4	EC	
281.151	g	Far-Go	10	G	
47.503	ml	Far-Go(just ahead plant)	4	EC	

* 'Per area' calculations based on 4 replicates of 6 by 30 feet plots (area of one treatment).

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1.5 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Evaluate wheat and ryegrass response to Far-Go.

VISUAL CROP INJURY ESTIMATES:

1. At 32 d after treatments only the 1.5 qt/A of Fargo 4 EC (17%) caused greater than 6% wheat stunting; wheat recovered very quickly.

VISUAL RYEGRASS CONTROL ESTIMATES:

1. All Far-Go treatments provided excellent early to mid-season control. By late January, control began to fall (<80%) when Far-Go was applied PRE after planting.

WHEAT YIELD:

1. The area planted to ryegrass (see general comments) was mowed down leaving essentially a weed free harvest area for each plot.
 2. Yields were extremely consistent and treatments did not have any impact.

GENERAL COMMENTS:

1. A very light population of natural ryegrass was present but to ensure adequate ryegrass control estimates, the last 6 foot of the plot was planted with annual ryegrass.

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Weed Code	wheat	wheat	wheat	wheat	wheat	LOLUM	LOLUM	
Crop Code								
Part Rated								
Rating Data Type	stunting	stunting	stunting	stunting	stunting	control	control	
Rating Unit	percent	percent	percent	percent	percent	percent	percent	
Rating Date	Dec-11-05	Dec-20-05	Jan-12-06	Jan-27-06	Apr-18-06	Dec-11-05	Dec-20-05	
Assessed By	AM	AM	AM	SC	SC	AM	AM	
Trt-Eval Interval	32 DA-A	41 DA-A	64 DA-A	79 DA-A	160 DA-A	32 DA-A	41 DA-A	
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	1	2	3	4	5	6	7
1 Far-Go	1.5 QT/A	18 a	9 a	0 a	6 a	0 a	99 a	99 a
2 Far-Go	15 LB/A	3 bc	6 ab	0 a	0 b	0 a	99 ab	99 a
3 Far-Go(just ahead plant)	1.5 QT/A	6 b	4 b	0 a	3 b	0 a	99 a	99 a
4 Far-Go	1.5 QT/A	1 bc	0 c	0 a	1 b	0 a	98 b	95 b
5 Far-Go	15 LB/A	0 c	0 c	0 a	0 b	0 a	99 ab	97 b
6 Non-treated		0 c	0 c	0 a	0 b	0 a	0 c	0 c
LSD (P=.05)		5.0	2.9	0.0	3.1	0.0	0.5	1.7
Standard Deviation		3.3	1.9	0.0	2.1	0.0	0.3	1.1
CV		72.73	59.57	0.0	127.24	0.0	0.42	1.36
Bartlett's X2		1.941	0.125	0.0	4.171	0.0	0.0	8.43
P(Bartlett's X2)		0.585	0.94	.	0.124	.	0.001*	0.038*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code		LOLUM	LOLUM	LOLUM		Yield	Yield
Crop Code						wheat	wheat
Part Rated						seed	seed
Rating Data Type		control	control	control		plot	YIELD
Rating Unit		percent	percent	percent		wt/lb	bu/A
Rating Date		Jan-12-06	Jan-27-06	Apr-18-06	May-22-06	May-22-06	
Assessed By		AM	SC	SC	TG	TG	
Trt-Eval Interval		64 DA-A	79 DA-A	160 DA-A	194 DA-A	194 DA-A	
ARM Action Codes						TY1	
# Subsamples, Dec.						1	
Trt Treatment	Rate						
No. Name	Rate Unit	8	9	10	11	12	
1 Far-Go	1.5 QT/A	100 ab	96 a	94 ab	19 ab	90.2 ab	
2 Far-Go	15 LB/A	99 c	95 a	89 b	19 a	91.8 a	
3 Far-Go(just ahead plant)	1.5 QT/A	100 a	98 a	98 a	18 b	86.7 b	
4 Far-Go	1.5 QT/A	99 bc	88 b	78 c	19 a	91.6 a	
5 Far-Go	15 LB/A	100 ab	97 a	94 ab	18 ab	88.1 ab	
6 Non-treated		0 d	0 c	0 d	18 ab	89.2 ab	
LSD (P=.05)		0.9	5.1	7.2	0.8	3.98	
Standard Deviation		0.6	3.4	4.8	0.5	2.64	
CV		0.73	4.31	6.34	2.95	2.95	
Bartlett's X2		1.62	4.072	7.318	1.37	1.371	
P(Bartlett's X2)		0.805	0.396	0.12	0.928	0.928	

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 12: TY1 = 4.84*[C11]

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No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.							

SOIL DESCRIPTION

% Sand: 80 % OM: 1.6 Texture: loamy sand
 % Silt: 10 pH: 6.0 Soil Name: _____
 % Clay: 10 CEC: _____ Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: irrigated

Closest Weather Station: _____ Distance: _____ Unit: __

APPLICATION DESCRIPTION

	A	B
Application Date:	Nov-09-05	Nov-09-05
Time of Day:	9 am	11 am
Application Method:	broadcast	broadcast
Application Timing:	PPI	PRE
Applic. Placement:	on soil	on soil
Air Temp., Unit:	78 F	83 F
% Relative Humidity:	48	41
Wind Velocity, Unit:	3 mph	4 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	83 F	83 F
Soil Moisture:	fair	fair/irri
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	TRZAW	TRZAW .
Stage Scale:	PPI	PRE
Height, Unit:	0 inch	0 inch

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	LOLMU .	LOLMU .
Stage Scale:	not up	not up
Density, Unit:

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APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 in	18 in
Nozzles/Row:	1	1
Band Width, Unit:		
Boom Length, Unit:	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	y	y

Trt No	Treatment Application Comment