

09/14/2016 (ICT 10-0-2 w/PREEM G 2016-5-DAT)

Coventry, TtTreatment ^{PA}		Product	Product	Appl
No.	Name	Rate	Rate Unit	Description
1	ICT 10-0-2 w/PREEM G	5	lbs/1000 ft2	-day interval
2	Safer Brand 9-0-0 G	20	lbs/1000 ft2	-day interval
3	Dimension 0-0-0	2.5	lbs/1000 ft2	-day interval
4	Scotts Weed and Feed	2.35	lbs/1000 ft2	-day interval
5	Untreated			

Trial Comments

EXPERIMENTAL INFORMATION

The site has a history of severe Crabgrass epidemics during the summer months, typically late June through August.

All treatments were applied as one application. All treatments were applied from a Lesco Rotary spreader. Each product one through four was used a different spreader settings based on the amount of pounds per thousand square feet to be delivered. Each time application was made the rotary spreader was cleaned and dried before each application one through four was made.

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Crabgrass was measured visually as number of active infection centers per plot (i.e., disease incidence). Turf-grass injury or phytotoxicity was determined visually on a 0 to 100% scale, where 0% = no injury, and 100% = entire plot with severe injury. Turf-grass quality was determined visually on a 1 to 9 scale or "index", where 9 = best quality, 6 = minimal acceptable quality, and 1 = worst quality.

Weed symptoms (the appearance of low weeds in the turf grass canopy, referred to as Common weeds were determined visually on the one rating date by counting the number of Weeds per plot. The common name of the weed species is called "dandelion, and is a common weed species to lawns, athletic fields, golf course fairways, tees, and roughs.

OBSERVATIONS and CONCLUSIONS

Crabgrass activity and pressure at this location was considered severe during July through mid-August. An overall "data trend", particularly as illustrated on the September 2, 2016 rating date, was as follows: Plots treated with ICT 10-0-2 w/PREEM G and any combination of treatments containing 10-0-2 with PREEM, exhibited a statistically lower level of Crabgrass.

ICT 10-0-2 w/PREEM G applied alone at either rate provided better control compared to Safer Brand Crabgrass product alone. ICT 10-0-2 w/PREEM G applied alone provided similar Weed control compared to applications of dimension alone.

CRABGRASS.

Since the peculiar appearance of Hairy Crabgrass was observed on July 7, 2008, the number of Crabgrass plants per plot was counted. No statistical differences were detected among all treatments, however, more Crabgrass was observed in untreated plots versus all treated-plots.

FUTURE OPPORTUNITIES

ICT 10-0-2 w/PREEM G is a potential highly valuable tool for Crabgrass management in Northern Turf Zone. Future research should examine application rates (i.e., wide range of product concentrations) and application intervals (i.e., 90-day) for both turf grass safety and Crabgrass and broad leaf weed suppression. Future research should also evaluate time-of-year applications (i.e., spring versus summer versus fall applications, and subsequent turf grass plant health. Future research should also consider Timing of seeding applications in more detail as we saw no effects on germination with the ICT 10-0-2 w/PREEM G product

Turf grass Phytotoxicity and Turf grass Quality.

No injury was observed in certain ICT -treated plots. Plots treated with ICT 10-0-2 w/PREEM G showed strong control of soft and hairy Crabgrass. On other species like quack grass the control was not as strong. Some seeding was conducted before and after on PO/GRG plots and Seed Germinations was seen but not measured for this Trial. 10-0-2 with PREEM applied alone at either rate provided better control compared to Safer Brand Crabgrass product alone, ICT 10-0-2 w/PREEM G applied alone provided similar Crabgrass control compared to applications of dimension alone.

ICT 10-0-2 w/PREEM G applied alone provided similar Crabgrass control compared to application of Scotts W&F alone.

Since the peculiar appearance of Hairy Crabgrass was observed on July 7, 2008, the numbers of Crabgrass plants per plot were counted. No statistical differences were detected among 1,3,4 treatments, however, more Crabgrass were observed in untreated and plot 2 plots versus all treated-plots.

Weed Code	CRAB	CRAB	CRAB	CRAB	CRAB	CRAB	CRAB	CRAB	CRA B	CRAB	
Crop Code	DIDG	DIDG	DIDG	DIDG	DIDG	DIDG	DIDG	DIDG	DIDG	DIDG	
Part Rated	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	Plot	
Rating Unit	#	#	#	#	#	#	#	#	#	%	
Rating Date	7/7/16	7/17/16	7/21/16	7/29/16	8/7/16	8/14/16	8/28/16	9/2/16	9/14/16		
Trt No.	Treatment Name	Plot	1	2	3	4	5	6	7	8	9
1	ICT 10-0-2 w/PREEM G	10 1	0.0	2.0	2.0	6.0	4.0	2.0	0.0	0.0	20.0
		21 3	0.0	3.0	5.0	8.0	3.0	2.0	0.0	2.0	20.0
		30 3	0.0	4.0	4.0	3.0	4.0	0.0	0.0	0.0	10.0
Mean =			0.0	3.0	3.7	5.7	3.7	1.3	0.0	0.7	13.7
2	Safer Brand CGM 9-0-0	10 2	0.0	6.0	3.0	5.0	3.0	1.0	0.0	0.0	0.0
		21 7	0.0	2.0	2.0	6.0	2.0	0.0	0.0	2.0	0.0
		30 7	0.0	3.0	4.0	5.0	4.0	2.0	0.0	0.0	0.0
Mean =			0.0	3.7	3.0	5.3	3.0	1.0	0.0	0.7	0.0
3	Dimension G	10 3	0.0	3.0	7.0	5.0	11.0	6.0	0.0	3.0	20.0
		21 0	0.0	2.0	8.0	14.0	10.0	4.0	2.0	3.0	20.0
		31 3	2.0	7.0	13.0	14.0	7.0	4.0	2.0	3.0	10.0
Mean =			0.7	4.0	9.3	11.0	9.3	4.7	1.3	3.0	18.5
4	Scotts W & F	10 4	0.0	2.0	6.0	10.0	12.0	4.0	2.0	0.0	15.0
		21 2	0.0	0.0	10.0	4.0	2.0	2.0	0.0	2.0	20.0
		31 8	0.0	7.0	6.0	3.0	5.0	2.0	0.0	0.0	10.0
Mean =			0.0	3.0	7.3	5.7	6.3	2.7	0.7	0.7	15.0

1	ICT 10-0-2 w/PREEM G	3.7		4.3	4.3	4.3	4.3	4.5	4.3	4.3		
2	Safer Brand CGM 9-0-0	1.0		6.3	7.0	6.7	6.7	6.7	7.0	6.7		
3	Dimension	7.7		7.3	7.3	7.0	7.3	7.0	7.0	7.0		
4	Scotts weed & Feed	6.7		6.7	7.0	7.0	6.3	7.0	6.3	6.7		
5	Untreated											

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.

0914/2016(Jobes Crabgrass G-5-DAT)

CROP AND DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	Crab	Crabgrass	Digitaria
2.	weed	Broadleaf	obtusifolius

Variety: Blue ,Rye
,Fescue mix

Plot Width, Unit: 2.5

SITE AND DESIGN

Plot Length, Unit: 5 FT Reps: 3

Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments: This research trial was conducted on Northern zone Turf and historically has had severe Crabgrass outbreaks since the site is not typically treated with Herbicides .

SOIL DESCRIPTION

pH: 6.7

APPLICATION DESCRIPTION

	A	B	C	D
Application Date:	4/20/16	4/20/16	4/20/16	4/20/16

CROP STAGE AT EACH APPLICATION

	A	B	C	D
Crop 1 Code, Stage:	pre	pre	pre	pre
Stage Scale:	spring	spring	spring	spring
Height, Unit:	2.50 inch	2.50 inch	2.50 inch	2.50 inch

CRABGRASS STAGE AT EACH

APPLICATION

	A	B	C	D
CRABGRASS 1 Code, Stage:	Common	Common	Common	Common
Infestation Level:	low	low	moderate	severe
CRABGRASS 2 Code, Stage:	Hairy	Hairy	Hairy	Hairy
Infestation Level:	none	none	severe	none