

LSU Northeast Research Station

Evaluation of V-10142 postemergence activity on Texasweed when applied alone and in combination with other herbicides.

Trial ID: SJ07R027 Protocol ID: SJ07R027

Location: Study Director:
Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa Common rice
 Variety: Cocodrie
 BBCH Scale: BRIC Planting Date: 9/May/07
 Planting Method: DRILLED Rate, Unit: 100 LB/A
 Depth, Unit: 1 IN
 Row Spacing, Unit: 8 IN
 Seed Bed: MEDIUM
 Soil Moisture: DRY
 Harvest Equipment: Small plot combine
 Harvested Width, Unit: 5 FT Harvested Length, Unit: 12 FT
 % Standard Moisture: 12.0

Pest Description

Pest 1 Type: W Code: SEBEX Sesbania exaltata
 Common Name: Coffeebean
 Pest 2 Type: W Code: CNPPA Caperonia palustris
 Common Name: Texasweed
 Pest 3 Type: W Code: ECHCG Echinochloa crus-galli
 Common Name: Common barnyardgrass

Site and Design

Plot Width, Unit: 6.67 FT Site Type: RICE PADDY
 Plot Length, Unit: 15 FT Tillage Type: CONVENTIONAL-TILL
 Replications: 3 Study Design: Randomized Complete Block

Soil Description

Description Name: Tunica Cut
 % Sand: 21 % OM: 2.8 Texture: Clay
 % Silt: 37 pH: 6.2 Soil Name: Sharkey Clay
 % Clay: 49 CEC: 22.2 Fert. Level: EXCELLENT

Moisture and Weather Conditions

Overall Moisture Conditions: Dry
 Closest Weather Station: Northeast Research Station Distance: 0.5 Unit: MI

Date	Amount	Unit	Type
1. 2/May/07	0.04	IN	
2. 3/May/07	1.24	IN	
3. 14/May/07			FLUSH
4. 15/May/07	0.02	IN	
5. 16/May/07	0.01	IN	

6.	17/May/07	0.01	IN
7.	21/May/07		FLUSH
8.	3/Jun/07	0.02	IN
9.	12/Jun/07		FERTILIZE - 300# prilled urea
10.	12/Jun/07		FLOOD
11.	16/Jun/07	0.01	IN
12.	18/Jun/07	0.02	IN
13.	19/Jun/07	0.4	IN
14.	2/Jul/07	0.3	IN
15.	3/Jul/07	0.06	IN
16.	4/Jul/07	1.14	IN
17.	5/Jul/07	0.31	IN
18.	6/Jul/07	0.27	IN
19.	7/Jul/07	1.39	IN
20.	9/Jul/07	0.36	IN
21.	10/Jul/07	0.01	IN
22.	11/Jul/07	0.27	IN
23.	13/Jul/07	0.3	IN
24.	14/Jul/07	1.96	IN
25.	15/Jul/07	2.8	IN
26.	17/Jul/07	1.56	IN
27.	20/Jul/07	0.93	IN
28.	21/Jul/07	0.1	IN
29.	22/Jul/07	0.01	IN
30.	30/Jul/07	2.35	IN

Application Description

	A	B	C
Application Date:	28/May/07	9/Jun/07	11/Jun/07
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	EPOST	LPOST	3 DPF
Application Placement:	BROFOL	BROFOL	BROFOL
Air Temperature, Unit:	77 F	80 F	89 F
% Relative Humidity:	71	78	65
Wind Velocity, Unit:	4 MPH	4 MPH	3 MPH
Wind Direction:	E	W	N
Soil Temperature, Unit:	75 F	86 F	87 F
% Cloud Cover:	0		

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ORYSA	BRICORYSA	BRICORYSA BRIC
Stage Scale Used:	2-3 LF	5 LF	5 LF
Stage Majority, Percent:	3"	6"	6"
Stage Maximum, Percent:	4"	7"	7"

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SEBEX	WSEBEX	WSEBEX W
Stage Majority, Percent:	1 LF	5-6 LF	6-7 LF
Stage Minimum, Percent:	.5"	4"	6"
Stage Maximum, Percent:	1"	5"	7"
Pest 2 Code, Disc., Scale:	CNPPA	WCNPPA	WCNPPA W
Stage Majority, Percent:	1 LF	4-5 LF	4-5 LF
Stage Minimum, Percent:	.5"	3"	4"
Stage Maximum, Percent:	1"	4"	5"
Pest 3 Code, Disc., Scale:	ECHCG	WECHCG	WECHCG W
Stage Majority, Percent:		4-5 LF	4-5 LF
Stage Minimum, Percent:		3"	1"
Stage Maximum, Percent:		4"	2"

Application Equipment

A	B	C
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Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure, Unit:	31 PSI	31 PSI	31 PSI
Nozzle Type:	Greenleaf	Greenleaf	Greenleaf
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	2	2	2
Ground Speed, Unit:	2.8 MPH	2.8 MPH	2.8 MPH
Carrier:	Water	Water	Water
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC	15 GAL/AC
Propellant:	CO2	CO2	CO2

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Evaluation of V-10142 postemergence activity on Texasweed when applied alone and in combination with other herbicides.

Trial ID: SJ07R027

Protocol ID: SJ07R027

Location:

Study Director:

Investigator: Bill Williams

Pest Type				CNPPA	CNPPA	CNPPA	CNPPA	CNPPA
Pest Code								
Crop Code								
Part Rated				PLATOT	PPLATOT	PPLATOT	PPLATOT	PPLATOT
Rating Date				8/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07
Rating Data Type				Control	Control	Control	Control	Control
Rating Unit				%	%	%	%	%
Trt-Eval Interval				11 DA-A	5 DA-B	11 DA-C	25 DA-C	53 DA-C
Trt No.	Treatment Name	Rate	Growth Stage	1	2	3	4	5
1	Nontreated		0	d 0	d 0	f 0	e 0	d
2	V-10142	0.2 LB A/AEPOST	90	bc 93	a 88	ab 93	a 90	a
	COC	1 % V/V EPOST						
3	V-10142	0.2 LB A/ALPOST	0	d 53	b 53	d 53	c 50	c
	COC	1 % V/V LPOST						
4	Regiment	0.3 OZ/A EPOST	88	c 88	a 93	a 85	a 80	ab
	V-10142	0.2 LB A/AEPOST						
	Dyne-A-Pak	1.5 % V/V EPOST						
5	Regiment	0.3 OZ/A EPOST	92	ab 92	a 93	a 92	a 95	a
	V-10142	0.15 LB A/AEPOST						
	Dyne-A-Pak	1.5 % V/V EPOST						
6	Regiment	0.3 OZ/A EPOST	93	a 92	a 93	a 92	a 95	a
	V-10142	0.1 LB A/AEPOST						
	Dyne-A-Pak	1.5 % V/V EPOST						
7	Regiment	0.3 OZ/A EPOST	93	a 92	a 87	ab 92	a 92	a
	Dyne-A-Pak	1.5 % V/V EPOST						
8	Regiment	0.3 OZ/A LPOST	0	d 30	c 77	bc 90	a 92	a
	V-10142	0.2 LB A/ALPOST						
	Dyne-A-Pak	1.5 % V/V LPOST						
9	Regiment	0.3 OZ/A LPOST	0	d 30	c 73	c 92	a 87	ab
	V-10142	0.15 LB A/ALPOST						
	Dyne-A-Pak	1.5 % V/V LPOST						
10	Regiment	0.3 OZ/A LPOST	0	d 30	c 57	d 77	b 73	b
	V-10142	0.1 LB A/ALPOST						
	Dyne-A-Pak	1.5 % V/V LPOST						
11	Regiment	0.3 OZ/A LPOST	0	d 0	d 53	d 47	d 43	c
	Dyne-A-Pak	1.5 % V/V LPOST						
12	Regiment	0.5 OZ/A 3 DPF	0	d 0	d 30	e 47	d 43	c
	Dyne-A-Pak	1.5 % V/V 3 DPF						
13	Grasp	2.3 OZ/A 3 DPF	0	d 0	d 53	d 43	d 43	c

	COC	1	QT/A	3 DPF						
14	Regiment	0.5	OZ/A	3 DPF	0	d 0	d88	ab90	a 95	a
	V-10142	0.2	LB A/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
15	Grasp	2.3	OZ/A	3 DPF	0	d 0	d85	ab93	a 87	ab
	V-10142	0.2	LB A/A	3 DPF						
	COC	1	QT/A	3 DPF						
16	Regiment	0.5	OZ/A	3 DPF	0	d 0	d93	a 93	a 95	a
	Permit	0.5	OZ/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
17	Grasp	2.3	OZ/A	3 DPF	0	d 0	d93	a 93	a 95	a
	Londax	0.5	OZ/A	3 DPF						
	COC	1	QT/A	3 DPF						
LSD (P=.10)					2.4	3.4	8.7	5.0	9.9	
Standard Deviation					1.7	2.4	6.3	3.6	7.1	
CV					6.32	6.87	8.79	4.85	9.63	
Grand Mean					26.86	35.29	71.27	74.8	73.82	
Bartlett's X2					1.644	4.097	16.668	13.308	4.038	
P(Bartlett's X2)					0.649	0.536	0.274	0.424	0.909	
Replicate F					4.255	5.250	2.261	14.995	2.122	
Replicate Prob(F)					0.0230	0.0107	0.1207	0.0001	0.1363	
Treatment F					1918.064	831.625	54.637	166.670	45.651	
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	

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Pest Type					
Pest Code		CNPPA	CNPPA	CNPPA	CNPPA
Crop Code					
Part Rated		PLATOT	PPLATOT	PPLATOT	PPLATOT
Rating Date		8/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		Control	Control	Control	Control
Rating Unit		%	%	%	%
Trt-Eval Interval		11 DA-A	5 DA-B	11 DA-C	25 DA-C
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	1	2	3
			4	5	

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	SEBEX							
Pest Code	SEBEX	SEBEX	SEBEX	SEBEX	SEBEX			
Crop Code								
Part Rated	PLATOT	PPLATOT	PPLATOT	PPLATOT	PPLATOT			
Rating Date	8/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07	3/Aug/07			
Rating Data Type	Control	Control	Control	Control	Control			
Rating Unit	%	%	%	%	%			
Trt-Eval Interval	11 DA-A	5 DA-B	11 DA-C	25 DA-C	53 DA-C			
Trt Treatment	Rate	Growth						
No.Name	RateUnit	Stage	6	7	8	9	10	
1 Nontreated			0	c 0	d 0	d 0	c 0	c
2 V-10142	0.2 LB A/AE	POST	90	a 93	a 90	a 87	ab 87	ab
COC	1 % V/V	EPOST						
3 V-10142	0.2 LB A/AL	POST	0	c 57	b 47	c 0	c 0	c
COC	1 % V/V	LPOST						
4 Regiment	0.3 OZ/A	EPOST	87	b 88	a 92	a 83	b 77	b
V-10142	0.2 LB A/AE	POST						
Dyne-A-Pak	1.5 % V/V	EPOST						
5 Regiment	0.3 OZ/A	EPOST	92	a 93	a 93	a 90	ab 93	a
V-10142	0.15 LB A/AE	POST						
Dyne-A-Pak	1.5 % V/V	EPOST						
6 Regiment	0.3 OZ/A	EPOST	92	a 90	a 90	a 90	ab 93	a
V-10142	0.1 LB A/AE	POST						
Dyne-A-Pak	1.5 % V/V	EPOST						
7 Regiment	0.3 OZ/A	EPOST	93	a 88	a 82	b 83	b 93	a
Dyne-A-Pak	1.5 % V/V	EPOST						
8 Regiment	0.3 OZ/A	LPOST	0	c 30	c 93	a 83	b 93	a
V-10142	0.2 LB A/AL	POST						
Dyne-A-Pak	1.5 % V/V	LPOST						
9 Regiment	0.3 OZ/A	LPOST	0	c 63	b 93	a 90	ab 95	a
V-10142	0.15 LB A/AL	POST						
Dyne-A-Pak	1.5 % V/V	LPOST						
10 Regiment	0.3 OZ/A	LPOST	0	c 57	b 93	a 93	a 87	ab
V-10142	0.1 LB A/AL	POST						
Dyne-A-Pak	1.5 % V/V	LPOST						
11 Regiment	0.3 OZ/A	LPOST	0	c 60	b 93	a 93	a 93	a
Dyne-A-Pak	1.5 % V/V	LPOST						
12 Regiment	0.5 OZ/A	3 DPF	0	c 0	d 93	a 93	a 95	a
Dyne-A-Pak	1.5 % V/V	3 DPF						
13 Grasp	2.3 OZ/A	3 DPF	0	c 0	d 92	a 93	a 95	a
COC	1 QT/A	3 DPF						
14 Regiment	0.5 OZ/A	3 DPF	0	c 0	d 93	a 93	a 95	a
V-10142	0.2 LB A/A	3 DPF						
Dyne-A-Pak	1.5 % V/V	3 DPF						
15 Grasp	2.3 OZ/A	3 DPF	0	c 0	d 93	a 93	a 93	a
V-10142	0.2 LB A/A	3 DPF						
COC	1 QT/A	3 DPF						

16	Regiment	0.5	OZ/A	3 DPF	0	c 0	d93	a 93	a 95	a
	Permit	0.5	OZ/A	3 DPF						
	Dyne-A-Pak	1.5	% V/V	3 DPF						
17	Grasp	2.3	OZ/A	3 DPF	0	c 0	d93	a 93	a 95	a
	Londax	0.5	OZ/A	3 DPF						
	COC	1	QT/A	3 DPF						
LSD (P=.10)					2.4	8.7	4.7	4.7	8.1	
Standard Deviation					1.8	6.2	3.4	3.4	5.8	
CV					6.56	14.75	4.05	4.29	7.16	
Grand Mean					26.67	42.35	83.82	79.61	81.18	
Bartlett's X2					1.644	14.838	10.988	4.965	19.008	
P(Bartlett's X2)					0.649	0.022*	0.612	0.933	0.015*	
Replicate F					3.040	4.069	4.979	1.179	4.696	
Replicate Prob(F)					0.0618	0.0266	0.0131	0.3206	0.0163	
Treatment F					1777.180	122.818	154.878	235.095	84.777	
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	

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Pest Type					
Pest Code		SEBEX	SEBEX	SEBEX	SEBEX
Crop Code					
Part Rated		PLATOT	PPLATOT	PPLATOT	PPLATOT
Rating Date		8/Jun/07	14/Jun/07	22/Jun/07	6/Jul/07
Rating Data Type		Control	Control	Control	Control
Rating Unit		%	%	%	%
Trt-Eval Interval		11 DA-A	5 DA-B	11 DA-C	25 DA-C
Trt Treatment	Rate	Growth			
No. Name	Rate Unit	Stage	6	7	8
				9	10

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

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