

LSU Northeast Research Station

Evaluation of V-10142 for preemergence activity on Amazon sprangletop.

Trial ID: SJ06R018
Location:

Protocol ID: SJ06R018
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 Method: DRILLED
Depth, Unit: 1 IN
Row Spacing, Unit: 8 IN
Seed Bed: MEDIUM
Soil Moisture: DRY
Planting Date: 4/25/06
Rate, Unit: 100 LB/A
Emergence Date: 5/6/06
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:** ECHCG Echinochloa crus-galli
Common Name: Common barnyardgrass
Pest 2 Type: W **Code:** LEFPA Leptochloa panicoides
Common Name: Tighthead sprangletop

Site and Design

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

Maintenance

No.	Date	Maintenance Treatment Name	Rate	Unit
1.	6/7/06	Prilled urea	300	LB/A

Soil Description

Description Name: Bay 3 - North End
% Sand: 26 **% OM:** 2.23 **Texture:** Clay
% Silt: 32 **pH:** 7.98 **Soil Name:** Sharkey
% Clay: 42 **CEC:** 21.9 **Fert. Level:** Excellent

Moisture Conditions

Overall Moisture Conditions: Dry
Closest Weather Station: Northeast Research Station **Distance:** 0.25 **Unit:** MI

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	Date	Time	Amount	Unit	Type	Interval	Unit
1.	4/26/06	5:00 am	0.62	In	Rain	7	Hou
2.	4/26/06	10:00 p				3	Hou
3.	4/27/06	8:00 am	0.15	In	Rain	1	Hou
4.	4/30/06	8:30 am	1.19	In	Rain	1	Hou
5.	5/5/06	8:00 pm	1.49	In	Rain	1	Hou
6.	5/5/06	4:00 am				4	Hou
7.	5/6/06	8:00 am	0.31	In	Rain	3.5	Hou
8.	5/7/06	11:00 a	1.06	In	Rain	4	Hou
9.	5/7/06	12:00 p				2	Hou
10.	5/9/06	7:00 pm	0.39	In	Rain	0.75	Hou
11.	5/11/06	7:15 pm	0.2	In	Rain	0.5	Hou
12.	5/15/06	10:00 a	0.21	In	Rain	1	Hou
13.	5/19/06				Flush		
14.	5/27/06				Flush		
15.	5/28/06	5:00 pm	0.18	In	Rain	1	Hou
16.	5/29/06	2:30 pm	0.46	In	Rain	2.5	Hou
17.	5/30/06	1:30 pm	0.79	In	Rain	3	Hou
18.	6/2/06	6:30 pm	0.03	In	Rain	1	Hou
19.	6/7/06				Fertilize		
20.	6/7/06				Perment Flood		
21.	6/17/06	7:00 pm	0.03	In	Rain	1	Hou
22.	6/18/06	10:00 p	0.01	In	Rain	1	Hou
23.	6/19/06	10:00 p	0.05	In	Rain	1	Hou
24.	6/20/06	2:30 pm	0.19	In	Rain	1	Hou
25.	6/24/06	9:00 pm	0.07	In	Rain	1	Hou
26.	7/3/06	1:00 pm	0.07	In	Rain	0.5	Hou
27.	7/4/06	3:00 pm	0.69	In	Rain	1.5	Hou
28.	7/4/06	7:00 am				1	Hou
29.	7/5/06	12:00 a	1.25	In	Rain	0.75	Hou
30.	7/5/06	6:00pm				1.5	Hou
31.	7/6/06	6:00 pm	0.35	In	Rain	3.5	Hou
32.	7/11/06	2:00 pm	0.45	In	Rain	2	Hou

Application Description

	A
Application Date:	5/3/06
Time of Day:	10:00
Application Method:	SPRAY
Application Timing:	DPRE/PRE
Application Placement:	BROSIOI
Air Temperature, Unit:	85 F
% Relative Humidity:	63
Wind Velocity, Unit:	3 MPH
Wind Direction:	S
Soil Temperature, Unit:	82 F
Soil Moisture:	Damp
% Cloud Cover:	20

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Crop Stage At Each Application

A	
Crop 1 Code, BBCH Scale:	ORYSA BRIC
Stage Scale Used:	BBCH
Stage Majority, Percent:	N/A

Pest Stage At Each Application

A	
Pest 1 Code, Disc., Scale:	ECHCG W
Stage Majority, Percent:	N/A
Pest 2 Code, Disc., Scale:	LEFPA W
Stage Majority, Percent:	N/A

Application Equipment

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

Date	By	Notes
5/3/06	BJW	201, 202, 207, 303, 107 were lost due to spray errors. This study was repeated as SJ06R040.

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Pest Code	LEFPA	LEFPA	LEFPA	LEFPA	LEFPA	ORYSA BRIC	ORYSA BRIC
Crop Code						Common rice	Common rice
BBCH Scale						GRAIN C	GRAIN C
Crop Name						YIELD	YIELD
Part Rated	PLATOT P	PLATOT P	PLATOT P	PLATOT P	PLATOT P	lb/plot	BU
Rating Date	5/10/06	5/17/06	5/31/06	6/6/06	6/30/06	133 133	133 133
Rating Data Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	133 DA-A	133 DA-A
Rating Unit	%	%	%	%	%	141 DP-1	141 DP-1
Days After First/Last Applic.	7 7	14 14	28 28	34 34	58 58	TY1	0
Trt-Eval Interval	7 DA-A	14 DA-A	28 DA-A	34 DA-A	58 DA-A		
Plant-Eval Interval	15 DP-1	22 DP-1	36 DP-1	42 DP-1	66 DP-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment							
No. Name	1	2	3	4	5	6	7
Rate							
Unit							
1 V-10142	95.0 a	80.7 b	88.5 a	54.2 c	0.0 b	7.38 b	117 b
Facet							
2 V-10142	95.0 a	85.0 ab	86.7 a	83.3 a	78.3 a	8.70 b	138 b
Facet							
3 V-10142	95.0 a	89.0 a	84.5 a	80.5 ab	85.5 a	8.12 b	129 b
Facet							
4 V-10142	95.0 a	89.1 a	87.0 a	90.5 a	83.0 a	10.17 a	161 a
Facet							
5 Command	95.0 a	89.1 a	89.5 a	80.5 ab	83.0 a	5.17 c	82 c
Facet							
6 Bolero	95.0 a	83.3 ab	90.0 a	66.7 b	86.7 a	7.87 b	125 b
Facet							
7 Facet	95.0 a	80.3 b	59.6 b	0.3 d	0.7 b	5.46 c	87 c
Facet							
8 nontreated	95.0 a	0.0 c	0.0 c	0.0 d	0.0 b	2.20 d	35 d
LSD (P=.05)	0.11	3.97	8.97	11.65	8.92	1.128	17.9
Standard Deviation	0.06	2.15	4.86	6.31	4.83	0.611	9.7
CV	0.07	2.88	6.64	11.06	9.26	8.87	8.87
Bartlett's X2	0.0	0.558	1.07	0.918	0.99	7.224	7.224
P(Bartlett's X2)	.	0.455	0.784	0.632	0.911	0.406	0.406
Replicate F	0.000	4.814	0.855	0.427	1.193	0.461	0.461
Replicate Prob(F)	1.0000	0.0379	0.4570	0.6652	0.3470	0.6450	0.6445
Treatment F	0.000	597.391	123.954	102.229	238.507	50.270	50.277
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

ARM Action Codes
TY1 = 15.85833*[C6]