

LSU Northeast Research Station

Rice tolerance and yield from Grasp applied at 1 X and 2 X rates.

Trial ID: SJ06R012

Protocol ID: SJ06R012

Location: Bay 5 - Weed Free

Study Director:

Investigator: Bill Williams

General Trial Information

Investigator: Bill Williams

Crop Description

Crop 1: ORYSA Oryza sativa

Common rice

Variety: Cheniere

BBCH Scale: BRIC

Planting Date: 5/3/06

Planting Method: DRILLED

Rate, Unit: 110 lb/a

Depth, Unit: 1 IN

Row Spacing, Unit: 8 IN

Seed Bed: MEDIUM

Soil Moisture: DRY

Emergence Date: 5/12/06

Harvest Equipment: Small plot combine

Harvested Width, Unit: 5 FT

Harvested Length, Unit: 12 FT

% Standard Moisture: 12.0

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	Rate Unit
1.	6/7/06	Prilled Urea	300	lb/a

Soil Description

Description Name: Bay 5 - South End

% Sand: 26 % OM: 1.75 Texture: Clay

% Silt: 32 pH: 7.39 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: M

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

Application Description

	A	B
Application Date:	5/15/06	5/27/06
Time of Day:	10:00 am	9:00 am
Application Method:	SPRAY	SPRAY
Application Timing:	VEPOST	4-5 LF
Application Placement:	BROFOL	BROFOL
Applied By:	A. Burns	R. Godara
Air Temperature, Unit:	68 F	74 F
% Relative Humidity:	71	86
Wind Velocity, Unit:	4 MPH	1 MPH
Wind Direction:	W	SE
Dew Presence (Y/N):	N	N
Water Hardness:	NA	NA
Soil Temperature, Unit:	60 F	81 F
Soil Moisture:	WET	ADEQUATE
% Cloud Cover:	0	30

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ORYSA BRIC	ORYSA BRIC
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	2-3 LF 100	4-5 LF 100
Height, Unit:	3 IN	8 IN
Height Minimum, Maximum:	4 5	6 8

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Application Equipment

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

Trt No	Treatment Application Comment
2	4-5 lf timing-ran out on third rep (303).

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Study Director:

Investigator: Bill Williams

Crop Code	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA	ORYSA			
BBCH Scale	BRIC	BRIC	BRIC	BRIC	BRIC	BRIC	BRIC			
Crop Name	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice			
Part Rated	ROOT C	ROOT C	ROOT C	ROOT C	ROOT C	ROOT C	ROOT C			
Rating Date	6/12/06	6/19/06	6/26/06	7/5/06	7/12/06	7/5/06	7/5/06			
Rating Data Type	LENGTH	LENGTH	LENGTH	LENGTH	LENGTH	PHYSTU	VIGRED			
Rating Unit	CM	CM	CM	CM	CM	1-5	%			
Days After First/Last Applic.	28 16	35 23	42 30	51 39	58 46	51 39	51 39			
Trt-Eval Interval	28 DA-A	35 DA-A	42 DA-A	51 DA-A	28 DA-A	51 DA-A	51 DA-A			
Plant-Eval Interval	40 DP-1	47 DP-1	54 DP-1	63 DP-1	70 DP-1	63 DP-1	63 DP-1			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7
1	Clincher	13.5	oz/a	7.9781488 bc	6.64424724 c	7.2975013 b	9.5144453 c	13.8166680 a	2.67 a	26.7 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Grasp	2	oz/a							
	Agridex	1	qt/a							
2	Clincher	216	oz/a	7.0731189 c	4.91756584 d	5.4510008 c	8.2115553 c	12.6888908 a	1.90 a	34.0 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Grasp	4	oz/a							
	Agridex	1	qt/a							
3	Clincher	216	oz/a	8.8959274 ab	8.65916816 b	8.7931222 a	12.1266682 b	13.6666684 a	3.33 a	20.0 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Regiment	0.5	oz/a							
	Dyne-A-Pak	1	pt/a							
4	Clincher	216	oz/a	8.7149085 ab	6.37845294 c	7.5966671 b	11.1500017 b	11.1333353 a	2.17 a	33.3 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Regiment	1	oz/a							
	Dyne-A-Pak	1	pt/a							
5	Clincher	216	oz/a	10.1627389 a	9.75571539 a	8.9407415 a	14.0907416 a	13.2444443 a	3.67 a	8.3 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Facet	0.5	lb/a							
	Stam M4	4	qt/a							
LSD (P=.05)	1.25136257	0.784052331	0.74975015	1.44709304	2.41369725	2.797	34.01			
Standard Deviation	0.64803374	0.406031321	0.38826750	0.74939521	1.24996341	1.448	17.61			
CV	7.57	5.58	5.1	6.8	9.68	52.74	72.01			
Bartlett's X2	1.208	4.82	1.324	4.955	3.443	2.417	2.461			
P(Bartlett's X2)	0.877	0.306	0.857	0.292	0.487	0.659	0.652			
Replicate F	1.203	0.320	0.352	1.053	2.791	0.921	0.167			
Replicate Prob(F)	0.3555	0.7360	0.7152	0.3983	0.1285	0.4415	0.8492			
Treatment F	9.385	67.461	39.450	27.812	2.262	0.807	1.097			
Treatment Prob(F)	0.0061	0.0001	0.0001	0.0002	0.1630	0.5580	0.4276			

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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BBCH Scale	BRIC	BRIC	BRIC	BRIC	BRIC	BRIC	BRIC			
Crop Name	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice			
Part Rated	SHOOT C	SHOOT C	PLTOT C	PLTOT C	PLTOT C	PLTOT C	PLTOT C			
Rating Date	6/12/06	6/19/06	5/26/06	6/6/06	6/15/06	7/7/06	5/30/06			
Rating Data Type	LENGTH	LENGTH	PHYGEN	PHYGEN	PHYGEN	PHYGEN	VIGRED			
Rating Unit	CM	CM	%	%	%	%	%			
Days After First/Last Applic.	28 16	35 23	11 11	22 10	31 19	53 41	15 3			
Trt-Eval Interval	28 DA-A	35 DA-A	11 DA-A	22 DA-A	31 DA-A	53 DA-A	15 DA-A			
Plant-Eval Interval	40 DP-1	47 DP-1	23 DP-1	34 DP-1	43 DP-1	65 DP-1	27 DP-1			
ARM Action Codes										
Number of Decimals										
Trt No.	Treatment Name	Rate	Unit	8	9	10	11	12	13	14
1	Clincher	13.5	oz/a	25.3476893 a	34.9700009 a	0.0 a	0.0 a	0.0 a	5.0 a	0.0 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Grasp	2	oz/a							
	Agridex	1	qt/a							
2	Clincher	216	oz/a	25.7226283 a	33.5610156 a	0.0 a	0.0 a	0.0 a	0.0 a	1.7 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Grasp	4	oz/a							
	Agridex	1	qt/a							
3	Clincher	216	oz/a	27.9677820 a	37.0833358 a	0.0 a	0.0 a	0.0 a	0.0 a	3.3 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Regiment	0.5	oz/a							
	Dyne-A-Pak	1	pt/a							
4	Clincher	216	oz/a	27.5785188 a	38.1323853 a	0.0 a	0.0 a	0.0 a	5.0 a	6.7 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Regiment	1	oz/a							
	Dyne-A-Pak	1	pt/a							
5	Clincher	216	oz/a	29.5375033 a	36.0777815 a	0.0 a	0.0 a	0.0 a	0.0 a	6.7 a
	Command	1.33	pt/a							
	Agridex	1	qt/a							
	Facet	0.5	lb/a							
	Stam M4	4	qt/a							
LSD (P=.05)				4.44797274	4.97872450	0.00	0.00	0.00	5.65	7.05
Standard Deviation				2.30343842	2.57829477	0.00	0.00	0.00	2.93	3.65
CV				8.46	7.17	0.0	0.0	0.0	146.39	99.59
Bartlett's X2				3.289	1.271	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.511	0.866	.	.	.	1.00	0.001*
Replicate F				3.477	2.991	0.000	0.000	0.000	2.333	4.625
Replicate Prob(F)				0.0894	0.1151	1.0000	1.0000	1.0000	0.1673	0.0525
Treatment F				1.669	1.436	0.000	0.000	0.000	2.625	2.000
Treatment Prob(F)				0.2599	0.3165	1.0000	1.0000	1.0000	0.1255	0.1990

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Crop Code	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC	ORYSA BRIC
BBCH Scale	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice
Crop Name	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice	Common rice
Part Rated	PLTOT C	PLTOT C	PLTOT C	PLTOT C	PLTOT C	PLTOT C	PLTOT C
Rating Date	6/6/06	6/15/06	6/22/06	7/7/06	7/11/06	7/7/06	7/11/06
Rating Data Type	VIGRED	VIGRED	VIGRED	VIGRED	VIGRED	STARED	STARED
Rating Unit	%	%	%	%	%	%	%
Days After First/Last Applic.	22 10	31 19	38 26	53 41	57 45	53 41	57 45
Trt-Eval Interval	22 DA-A	31 DA-A	38 DA-A	53 DA-A	57 DA-A	53 DA-A	57 DA-A
Plant-Eval Interval	34 DP-1	43 DP-1	50 DP-1	65 DP-1	69 DP-1	65 DP-1	69 DP-1
ARM Action Codes							
Number of Decimals							
Trt Treatment							
No. Name Rate Unit	15	16	17	18	19	20	21
1 Clincher 13.5 oz/a Command 1.33 pt/a Agridex 1 qt/a Grasp 2 oz/a Agridex 1 qt/a	0.0 a	1.7 a	1.7 a	13.3 a	13.3 a	20.0 a	6.7 a
2 Clincher 216 oz/a Command 1.33 pt/a Agridex 1 qt/a Grasp 4 oz/a Agridex 1 qt/a	0.0 a	0.0 a	2.1 a	19.6 a	12.5 a	1.7 a	3.3 a
3 Clincher 216 oz/a Command 1.33 pt/a Agridex 1 qt/a Regiment 0.5 oz/a Dyne-A-Pak 1 pt/a	0.0 a	0.0 a	0.0 a	6.7 a	6.7 a	3.3 a	10.0 a
4 Clincher 216 oz/a Command 1.33 pt/a Agridex 1 qt/a Regiment 1 oz/a Dyne-A-Pak 1 pt/a	0.0 a	3.3 a	1.7 a	23.3 a	16.7 a	16.7 a	10.0 a
5 Clincher 216 oz/a Command 1.33 pt/a Agridex 1 qt/a Facet 0.5 lb/a Stam M4 4 qt/a	0.0 a	0.0 a	0.0 a	0.0 a	3.3 a	0.0 a	0.0 a
LSD (P=.05)	0.00	5.33	3.20	21.97	18.99	18.27	15.54
Standard Deviation	0.00	2.76	1.65	11.38	9.83	9.46	8.05
CV	0.0	276.03	152.74	90.4	93.64	113.54	134.12
Bartlett's X2	0.0	0.85	0.063	1.29	1.622	3.79	0.981
P(Bartlett's X2)	.	0.357	0.969	0.732	0.805	0.285	0.806
Replicate F	0.000	1.969	5.060	3.556	4.280	4.040	8.338
Replicate Prob(F)	1.0000	0.2097	0.0437	0.0860	0.0611	0.0681	0.0141
Treatment F	0.000	0.875	1.103	2.078	0.901	2.886	0.875
Treatment Prob(F)	1.0000	0.5242	0.4252	0.1874	0.5118	0.1051	0.5242

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Crop Code	ORYSA	ORYSA
BBCH Scale	BRIC	BRIC
Crop Name	Common rice	Common rice
Part Rated	GRAIN C	GRAIN C
Rating Date	9/12/06	9/12/06
Rating Data Type	YIELD	YIELD
Rating Unit	LB/PLT	BU
Days After First/Last Applic.	120 108	120 108
Trt-Eval Interval		
Plant-Eval Interval	132 DP-1	132 DP-1
ARM Action Codes		TY1
Number of Decimals		0
Trt No.	Treatment	Rate
	Name	Unit
1	Clincher	13.5 oz/a
	Command	1.33 pt/a
	Agridex	1 qt/a
	Grasp	2 oz/a
	Agridex	1 qt/a
2	Clincher	216 oz/a
	Command	1.33 pt/a
	Agridex	1 qt/a
	Grasp	4 oz/a
	Agridex	1 qt/a
3	Clincher	216 oz/a
	Command	1.33 pt/a
	Agridex	1 qt/a
	Regiment	0.5 oz/a
	Dyne-A-Pak	1 pt/a
4	Clincher	216 oz/a
	Command	1.33 pt/a
	Agridex	1 qt/a
	Regiment	1 oz/a
	Dyne-A-Pak	1 pt/a
5	Clincher	216 oz/a
	Command	1.33 pt/a
	Agridex	1 qt/a
	Facet	0.5 lb/a
	Stam M4	4 qt/a
LSD (P=.05)	1.529	22.3
Standard Deviation	0.812	11.9
CV	12.04	12.04
Bartlett's X2	5.315	5.314
P(Bartlett's X2)	0.257	0.257
Replicate F	1.971	1.971
Replicate Prob(F)	0.2014	0.2014
Treatment F	1.340	1.340
Treatment Prob(F)	0.3348	0.3348

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ARM Action Codes
TY1 = 14.59333*[22]