

LSU Northeast Research Station

Wheat variety tolerance to Sencor.

Trial ID: SJ05W001
Location:Study Dir.:
Investigator: Bill Williams**GENERAL TRIAL INFORMATION**

Investigator: Bill Williams

Conducted Under GLP (Y/N): N

Conducted Under GEP (Y/N): N

Conclusions: Wheat response to 4 and 8 oz/A Sencor was evaluated to identify Sencor tolerant wheat varieties. Visual signs of Sencor injury were not observed at any time on any variety. Wheat yields were highly variable making it difficult to detect reductions in yield that could be attributed to Sencor. Despite excellent weed control from Osprey and Harmony Extra, yield of most varieties actually increased as a result of Sencor applications. Sencor at 8 oz/A did appear to reduce yields for Panola, AGS 2000, LA9560CA22-1, and USG 3209. Yield of HBK 3266 appeared to be increased by 4 oz/A Sencor but not affected by 8 oz/A Sencor.

Crop 1: TRZAW WHEAT, WINTER

Variety: Multiple

Planting Date: 11/17/04

Planting Method: DRILLED

Rate: 70 LB/A

Depth: 1 IN

Row Spacing: 8 IN

Seed Bed: FINE

Soil Moisture: Dry

Emergence Date: 11/23/04

SITE AND DESIGN

Plot Width, Unit: 6.67 FT

Plot Length, Unit: 15 FT

Reps: 3

Site Type: FIELD

Tillage Type: CONVENTIONAL-TILL

Study Design: FACTORIAL

No.	Date	Treatment Name	Maintenance	Form	Form	Form	Rate	Unit
No.	Date	Treatment Name	Conc	Unit	Type	Rate	Unit	
1.	12/3/04	Osprey	4.5	%	WDG	4.75	oz/a	
2.	12/3/04	Harmony Extra	75	%	DF	0.5	oz/A	
3.	2/21/05	Amonium Nitrate				90	LB/A	

SOIL DESCRIPTION

% Sand: 16	% OM: 1.06	Texture: Silty clay loam
% Silt: 54	pH: 7.88	Soil Name: Mhoon
% Clay: 30	CEC: 13.7	Fert. Level: EXCELLENT

Overall Moisture Conditions: NORMAL

Closest Weather Station: Northeast Research Station

Distance: 0.1

Unit: MI

APPLICATION DESCRIPTION

A

Application Date: 11/26/04
 Time of Day: 11:00
 Application Method: SPRAY
 Application Timing: 3-4 lf
 Applic. Placement: BROFOL
 Air Temp., Unit: 78 F
 % Relative Humidity: 52
 Wind Velocity, Unit: 2 W
 Soil Temp., Unit: 72 F
 Soil Moisture: Dry
 % Cloud Cover: 60

CROP STAGE AT EACH APPLICATION**A**

Crop 1 Code, Stage: TRZAW 2-3 LF
Stage Scale: 1-2 IN

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APPLICATION EQUIPMENT

A

Appl. Equipment: Backpack
Operating Pressure: 31
Nozzle Type: Greenleaf
Nozzle Size: 11002
Nozzle Spacing, Unit: 20 "
Nozzles/Row: 4
Carrier: Water
Spray Volume, Unit: 15 GPA
Propellant: CO2

LSU Northeast Research Station

Wheat variety tolerance to Sencor.

Trial ID: SJ05W001
 Location:

Study Dir.:
 Investigator: Bill Williams

Crop Code	TRZAW	TRZAW	TRZAW	TRZAW
Part Rated	PLATOT C	PLATOT C	PLATOT C	PLATOT C
Rating Data Type	PHYGEN	PHYGEN	PHYGEN	PHYGEN
Rating Unit	%	%	%	%
Rating Date				
Trt-Eval Interval				
ARM Action Codes				
# Subsamples, Dec.				

Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	
1	Sencor 75DF AGRIPRO/NATCHEZ	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
2	Sencor 75DF AGRIPRO/PANOLA	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
3	Sencor 75DF AGS 2000	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
4	Sencor 75DF DIXIE 900	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
5	Sencor 75DF DIXIE 9812	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
6	Sencor 75DF DK 1551W	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
7	Sencor 75DF RO 33	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
8	Sencor 75DF HBK 3266	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
9	Sencor 75DF LA95181BUB40-1	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
10	Sencor 75DF LA9560CA22-1	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
11	Sencor 75DF LA96140BUA70-2	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
12	Sencor 75DF PIONEER/26R61	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
13	Sencor 75DF VIGORO MCINTOSH	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
14	Sencor 75DF VIGORO V9513	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
15	Sencor 75DF NK/COKER 9375	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
16	Sencor 75DF TERRAL LA841	4	OZ/A	3-4	lf 0	a 0	a 0	a 0	a

LSU Northeast Research Station

Crop Code
 Part Rated
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 ARM Action Codes
 # Subsamples, Dec.

TRZAW TRZAW TRZAW TRZAW
 PLATOT C PLATOT C PLATOT C PLATOT C
 PHYGEN PHYGEN PHYGEN PHYGEN
 % % % %

Trt No.	Treatment Name	Rate	Unit	Grow Stg	1	2	3	4				
17	Sencor 75DF TERRAL TV8466	4	OZ/A	3-4	lf	0	a	0	a	0	a	
18	Sencor 75DF USG 3209	4	OZ/A	3-4	lf	0	a	0	a	0	a	
19	Sencor 75DF USG 3592	4	OZ/A	3-4	lf	0	a	0	a	0	a	
20	Sencor 75DF AR910-9-1	4	OZ/A	3-4	lf	0	a	0	a	0	a	
21	Sencor 75DF PAT	4	OZ/A	3-4	lf	0	a	0	a	0	a	
22	Sencor 75DF MCCORMICK	4	OZ/A	3-4	lf	0	a	0	a	0	a	
23	Sencor 75DF AGRIPRO/NATCHEZ	8	OZ/A	3-4	lf	0	a	0	a	0	a	
24	Sencor 75DF AGRIPRO/PANOLA	8	OZ/A	3-4	lf	0	a	0	a	0	a	
25	Sencor 75DF AGS 2000	8	OZ/A	3-4	lf	0	a	0	a	0	a	
26	Sencor 75DF DIXIE 900	8	OZ/A	3-4	lf	0	a	0	a	0	a	
27	Sencor 75DF DIXIE 9812	8	OZ/A	3-4	lf	0	a	0	a	0	a	
28	Sencor 75DF DK 1551W	8	OZ/A	3-4	lf	0	a	0	a	0	a	
29	Sencor 75DF RO 33	8	OZ/A	3-4	lf	0	a	0	a	0	a	
30	Sencor 75DF HBK 3266	8	OZ/A	3-4	lf	0	a	0	a	0	a	
31	Sencor 75DF LA95181BUB40-1	8	OZ/A	3-4	lf	0	a	0	a	0	a	
32	Sencor 75DF LA9560CA22-1	8	OZ/A	3-4	lf	0	a	0	a	0	a	
33	Sencor 75DF LA96140BUA70-2	8	OZ/A	3-4	lf	0	a	0	a	0	a	
34	Sencor 75DF PIONEER/26R61	8	OZ/A	3-4	lf	0	a	0	a	0	a	

LSU Northeast Research Station

Crop Code
 Part Rated
 Rating Data Type
 Rating Unit
 Rating Date
 Trt-Eval Interval
 ARM Action Codes
 # Subsamples, Dec.

TRZAW TRZAW TRZAW TRZAW
 PLATOT C PLATOT C PLATOT C PLATOT C
 PHYGEN PHYGEN PHYGEN PHYGEN
 % % % %

Trt	Treatment	Rate	Unit	Grow	1	2	3	4	
35	Sencor 75DF VIGORO MCINTOSH	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
36	Sencor 75DF VIGORO V9513	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
37	Sencor 75DF NK/COKER 9375	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
38	Sencor 75DF TERRAL LA841	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
39	Sencor 75DF TERRAL TV8466	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
40	Sencor 75DF USG 3209	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
41	Sencor 75DF USG 3592	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
42	Sencor 75DF AR910-9-1	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
43	Sencor 75DF PAT	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
44	Sencor 75DF MCCORMICK	8	OZ/A	3-4	lf 0	a 0	a 0	a 0	a
45	nontreated AGRIPRO/NATCHEZ				0	a 0	a 0	a 0	a
46	nontreated AGRIPRO/PANOLA				0	a 0	a 0	a 0	a
47	nontreated AGS 2000				0	a 0	a 0	a 0	a
48	nontreated DIXIE 900				0	a 0	a 0	a 0	a
49	nontreated DIXIE 9812				0	a 0	a 0	a 0	a
50	nontreated DK 1551W				0	a 0	a 0	a 0	a
51	nontreated RO 33				0	a 0	a 0	a 0	a
52	nontreated HBK 3266				0	a 0	a 0	a 0	a

LSU Northeast Research Station

Crop Code TRZAW TRZAW TRZAW TRZAW
 Part Rated PLATOT C PLATOT C PLATOT C PLATOT C
 Rating Data Type PHYGEN PHYGEN PHYGEN PHYGEN
 Rating Unit % % % %
 Rating Date
 Trt-Eval Interval
 ARM Action Codes
 # Subsamples, Dec.

Trt	Treatment	Rate	Grow	1	2	3	4	
No.	Name	Rate Unit	Stg					
53	nontreated LA95181BUB40-1			0	a 0	a 0	a 0	a
54	nontreated LA9560CA22-1			0	a 0	a 0	a 0	a
55	nontreated LA96140BUA70-2			0	a 0	a 0	a 0	a
56	nontreated PIONEER/26R61			0	a 0	a 0	a 0	a
57	nontreated VIGORO MCINTOSH			0	a 0	a 0	a 0	a
58	nontreated VIGORO V9513			0	a 0	a 0	a 0	a
59	nontreated NK/COKER 9375			0	a 0	a 0	a 0	a
60	nontreated TERRAL LA841			0	a 0	a 0	a 0	a
61	nontreated TERRAL TV8466			0	a 0	a 0	a 0	a
62	nontreated USG 3209			0	a 0	a 0	a 0	a
63	nontreated USG 3592			0	a 0	a 0	a 0	a
64	nontreated AR910-9-1			0	a 0	a 0	a 0	a
65	nontreated PAT			0	a 0	a 0	a 0	a
66	nontreated MCCORMICK			0	a 0	a 0	a 0	a
LSD (P=.05)				0.0	0.0	0.0	0.0	
Bartlett's X2				0.0	0.0	0.0	0.0	
P(Bartlett's X2)				

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.

LSU Northeast Research Station

Crop Code	TRZAW	TRZAW
Part Rated	GRAIN C	GRAIN C
Rating Data Type	lb/plt	YIELD
Rating Unit	13% Mst	BU
Rating Date	6/22/05	6/22/05
Trt-Eval Interval	217 DA-A	217 DA-A
ARM Action Codes		TY1
# Subsamples, Dec.		0

Trt No.	Treatment Name	Rate	Grow	Stg	5	6
1	Sencor 75DF AGRIPRO/NATCHEZ	4	OZ/A	3-4	lf 5	a-g 56 a-g
2	Sencor 75DF AGRIPRO/PANOLA	4	OZ/A	3-4	lf 5	a-e 58 a-e
3	Sencor 75DF AGS 2000	4	OZ/A	3-4	lf 4	i-p 48 i-p
4	Sencor 75DF DIXIE 900	4	OZ/A	3-4	lf 5	abc 59 abc
5	Sencor 75DF DIXIE 9812	4	OZ/A	3-4	lf 3	m-u 42 m-u
6	Sencor 75DF DK 1551W	4	OZ/A	3-4	lf 4	c-j 53 c-j
7	Sencor 75DF RO 33	4	OZ/A	3-4	lf 4	k-r 46 k-r
8	Sencor 75DF HBK 3266	4	OZ/A	3-4	lf 5	a-e 58 a-e
9	Sencor 75DF LA95181BUB40-1	4	OZ/A	3-4	lf 4	c-i 54 c-i
10	Sencor 75DF LA9560CA22-1	4	OZ/A	3-4	lf 4	j-q 46 j-q
11	Sencor 75DF LA96140BUA70-2	4	OZ/A	3-4	lf 4	e-k 51 e-k
12	Sencor 75DF PIONEER/26R61	4	OZ/A	3-4	lf 5	a-e 58 a-e
13	Sencor 75DF VIGORO MCINTOSH	4	OZ/A	3-4	lf 5	a 64 a
14	Sencor 75DF VIGORO V9513	4	OZ/A	3-4	lf 3	q-w 39 q-w
15	Sencor 75DF NK/COKER 9375	4	OZ/A	3-4	lf 4	l-t 44 l-t
16	Sencor 75DF TERRAL LA841	4	OZ/A	3-4	lf 4	m-t 42 m-t
17	Sencor 75DF TERRAL TV8466	4	OZ/A	3-4	lf 3	p-v 40 p-v
18	Sencor 75DF USG 3209	4	OZ/A	3-4	lf 4	i-o 48 i-o

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Crop Code	TRZAW	TRZAW
Part Rated	GRAIN C	GRAIN C
Rating Data Type	lb/plt	YIELD
Rating Unit	13% Mst	BU
Rating Date	6/22/05	6/22/05
Trt-Eval Interval	217 DA-A	217 DA-A
ARM Action Codes		TY1
# Subsamples, Dec.		0

Trt No.	Treatment Name	Rate	Unit	Stg	Grow 5	6	c-i	54	c-i
19	Sencor 75DF USG 3592	4	OZ/A	3-4	lf 4	4	c-i	54	c-i
20	Sencor 75DF AR910-9-1	4	OZ/A	3-4	lf 4	4	d-k	52	d-k
21	Sencor 75DF PAT	4	OZ/A	3-4	lf 5	5	b-h	56	b-h
22	Sencor 75DF MCCORMICK	4	OZ/A	3-4	lf 2	2	x-A	30	x-A
23	Sencor 75DF AGRIPRO/NATCHEZ	8	OZ/A	3-4	lf 5	5	a-e	58	a-e
24	Sencor 75DF AGRIPRO/PANOLA	8	OZ/A	3-4	lf 3	3	r-w	38	r-w
25	Sencor 75DF AGS 2000	8	OZ/A	3-4	lf 3	3	xyz	30	xyz
26	Sencor 75DF DIXIE 900	8	OZ/A	3-4	lf 4	4	d-k	52	d-k
27	Sencor 75DF DIXIE 9812	8	OZ/A	3-4	lf 4	4	c-k	52	c-k
28	Sencor 75DF DK 1551W	8	OZ/A	3-4	lf 5	5	a-f	57	a-f
29	Sencor 75DF RO 33	8	OZ/A	3-4	lf 5	5	b-i	54	b-i
30	Sencor 75DF HBK 3266	8	OZ/A	3-4	lf 3	3	xyz	30	xyz
31	Sencor 75DF LA95181BUB40-1	8	OZ/A	3-4	lf 5	5	a-e	58	a-e
32	Sencor 75DF LA9560CA22-1	8	OZ/A	3-4	lf 2	2	zA	23	zA
33	Sencor 75DF LA96140BUA70-2	8	OZ/A	3-4	lf 3	3	n-u	42	n-u
34	Sencor 75DF PIONEER/26R61	8	OZ/A	3-4	lf 5	5	a-f	57	a-f
35	Sencor 75DF VIGORO MCINTOSH	8	OZ/A	3-4	lf 4	4	i-o	48	i-o
36	Sencor 75DF VIGORO V9513	8	OZ/A	3-4	lf 5	5	ab	62	ab

LSU Northeast Research Station

Crop Code	TRZAW	TRZAW
Part Rated	GRAIN C	GRAIN C
Rating Data Type	lb/plt	YIELD
Rating Unit	13% Mst	BU
Rating Date	6/22/05	6/22/05
Trt-Eval Interval	217 DA-A	217 DA-A
ARM Action Codes		TY1
# Subsamples, Dec.		0

Trt	Treatment	Rate	Unit	Stg	Grow	5	6
37	Sencor 75DF NK/COKER 9375	8	OZ/A	3-4	lf	3	wxy 32 wxy
38	Sencor 75DF TERRAL LA841	8	OZ/A	3-4	lf	5	a-d 59 a-d
39	Sencor 75DF TERRAL TV8466	8	OZ/A	3-4	lf	4	c-k 52 c-k
40	Sencor 75DF USG 3209	8	OZ/A	3-4	lf	2	yzA 25 yzA
41	Sencor 75DF USG 3592	8	OZ/A	3-4	lf	4	j-q 46 j-q
42	Sencor 75DF AR910-9-1	8	OZ/A	3-4	lf	4	i-p 48 i-p
43	Sencor 75DF PAT	8	OZ/A	3-4	lf	5	b-h 56 b-h
44	Sencor 75DF MCCORMICK	8	OZ/A	3-4	lf	4	i-p 48 i-p
45	nontreated AGRIPRO/NATCHEZ					4	e-k 51 e-k
46	nontreated AGRIPRO/PANOLA					4	g-m 49 g-m
47	nontreated AGS 2000					3	o-u 41 o-u
48	nontreated DIXIE 900					4	c-k 52 c-k
49	nontreated DIXIE 9812					4	g-m 49 g-m
50	nontreated DK 1551W					4	g-m 49 g-m
51	nontreated RO 33					4	h-n 49 h-n
52	nontreated HBK 3266					2	A 23 A
53	nontreated LA95181BUB40-1					3	t-x 37 t-x
54	nontreated LA9560CA22-1					3	n-u 42 n-u

LSU Northeast Research Station

Crop Code	TRZAW	TRZAW
Part Rated	GRAIN C	GRAIN C
Rating Data Type	lb/plt	YIELD
Rating Unit	13% Mst	BU
Rating Date	6/22/05	6/22/05
Trt-Eval Interval	217 DA-A	217 DA-A
ARM Action Codes		TY1
# Subsamples, Dec.		0

Trt	Treatment	Rate	Grow			
No.	Name	Rate Unit	Stg	5	6	
55	nontreated LA96140BUA70-2		3	vwx	33	vwx
56	nontreated PIONEER/26R61		4	f-l	50	f-l
57	nontreated VIGORO MCINTOSH		3	m-u	42	m-u
58	nontreated VIGORO V9513		3	t-x	36	t-x
59	nontreated NK/COKER 9375		3	xyz	30	xyz
60	nontreated TERRAL LA841		5	a-f	57	a-f
61	nontreated TERRAL TV8466		4	k-s	45	k-s
62	nontreated USG 3209		3	s-w	38	s-w
63	nontreated USG 3592		4	c-k	52	c-k
64	nontreated AR910-9-1		3	q-w	40	q-w
65	nontreated PAT		4	f-l	50	f-l
66	nontreated MCCORMICK		3	u-x	35	u-x

LSD (P=.05)	0.6	7.6
Bartlett's X2	50.151	50.152
P(Bartlett's X2)	0.913	0.913

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.

Column 6: TY1 = 12.1*[5]