

Intensive Wheat Management Study - Carbondale.

Project Code: 05-ARC-N9-W225 Location: Agronomy Research Center  
 Investigator: Bryan Young

**Investigator:** Bryan Young, Associate Professor, Southern Illinois University

**City State Zip Country:** Carbondale IL 62901 USA  
**Trial Status:** Final **Updated:** 12-02-05

**Objective:**

Evaluate the response of five wheat varieties to four pest programs by three fertilization levels.

**Crop 1:** TRZAW wheat, winter **Variety:** See treatment list  
**Planting Method:** Seeded **Planting Date:** 10-25-04  
**Rate:** 1.3 mil. S/A **Depth:** 1.5 IN  
**Row Spacing:** 8.0 IN

**Plot Width, Unit:** 5 FT **Plot Length, Unit:** 30 FT **Reps:** 3  
**Tillage Type:** Reduced-Till **Study Design:** Randomized complete block  
**Previous Crop, Year:** ZEAMX, 2004

**Field Prep./Maintenance:** Fall fertilization: N 27 LB/A, P205 60 LB/A, K20 120 LB/A; applied to all plots. Spring fertilization and pest control per treatment (see treatment list and comments).

**Soil Name:** Weir **% OM:** 1.7 **pH:** 6.3 **CEC:** 8  
**Texture:** Silt loam **Fert. Level:** P1: 78 LB/A, K: 399 LB/A

**APPLICATION DESCRIPTION**

**Application Method:** See note

**CROP STAGE AT EACH APPLICATION**

**Crop 1 Code, Stage:** TRZAW  
**Height, Unit:** See note

**APPLICATION EQUIPMENT**

A

**NOTES:**

Wheat varieties, wheat stage at application, fertilization, application dates and pest control are listed in the treatment list and/or comments.

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Weed Code	Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Rating Data Type		BYD	BYD	TanSpot	TanSpot	LeafBch	LeafBch	LeafRust
Rating Unit		% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	Percent
Rating Date		05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05
Trt-Eval Interval		26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Prod Unit	Prod Unit	Grow Stg	Appl Code
1	No Insecticide - No Fungicide							
1	90 lb N - single application							
1	P 25R47							
22								
2	No Insecticide - No Fungicide							
2	90 lb N - single application							
2	P 25R37							
25								
3	No Insecticide - No Fungicide							
3	90 lb N - single application							
3	P 25R78							
23								
4	No Insecticide - No Fungicide							
4	90 lb N - single application							
4	Benton							
30								
5	No Insecticide - No Fungicide							
5	90 lb N - single application							
5	FS 539							
47								
6	No Insecticide - No Fungicide							
6	115 lb N - single application							
6	P 25R47							
35								
7	No Insecticide - No Fungicide							
7	115 lb N - single application							
7	P 25R37							
8								
8	No Insecticide - No Fungicide							
8	115 lb N - single application							
8	P 25R78							
35								
9	No Insecticide - No Fungicide							
9	115 lb N - single application							
9	Benton							
40								
10	No Insecticide - No Fungicide							
10	115 lb N - single application							
10	FS 539							
43								
11	No Insecticide - No Fungicide							
11	115 lb N - split application							
11	P 25R47							
27								
12	No Insecticide - No Fungicide							
12	115 lb N - split application							
12	P 25R37							
6								
13	No Insecticide - No Fungicide							
13	115 lb N - split application							
13	P 25R78							
25								
14	No Insecticide - No Fungicide							
14	115 lb N - split application							
14	Benton							
10								
15	No Insecticide - No Fungicide							
15	115 lb N - split application							
15	FS 539							
50								
16	Fungicide - No Insecticide							
16	90 lb N - single application							
16	P 25R47							
60								
17	Fungicide - No Insecticide							
17	90 lb N - single application							
17	P 25R37							
18								
18	Fungicide - No Insecticide							
18	90 lb N - single application							
18	P 25R78							
30								

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Weed Code	Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Rating Data Type		BYD	BYD	TanSpot	TanSpot	LeafBch	LeafBch	LeafRust
Rating Unit		% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	Percent
Rating Date		05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05
Trt-Eval Interval		26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Prod Unit	Prod Unit	Grow Stg	Appl Code
19	Fungicide - No Insecticide							
19	90 lb N - single application			20	12	1	3	1
19	Benton							4
								0
20	Fungicide - No Insecticide							
20	90 lb N - single application			45	70	0	0	0
20	FS 539							
								0
21	Fungicide - No Insecticide							
21	115 lb N - single application			40	30	11	11	3
21	P 25R47							
								1
								0
22	Fungicide - No Insecticide							
22	115 lb N - single application			8	15	3	3	0
22	P 25R37							
								0
23	Fungicide - No Insecticide							
23	115 lb N - single application			20	43	2	5	0
23	P 25R78							
								0
24	Fungicide - No Insecticide							
24	115 lb N - single application			28	23	2	3	0
24	Benton							
								0
25	Fungicide - No Insecticide							
25	115 lb N - single application			33	60	0	0	0
25	FS 539							
								2
26	Fungicide - No Insecticide							
26	115 lb N - split application			18	25	2	10	3
26	P 25R47							
								3
								0
27	Fungicide - No Insecticide							
27	115 lb N - split application			10	10	1	1	1
27	P 25R37							
								1
								0
28	Fungicide - No Insecticide							
28	115 lb N - split application			32	33	3	4	0
28	P 25R78							
								0
29	Fungicide - No Insecticide							
29	115 lb N - split application			15	13	1	1	2
29	Benton							
								3
								0
30	Fungicide - No Insecticide							
30	115 lb N - split application			35	60	0	0	0
30	FS 539							
								0
31	Insecticide - No Fungicide							
31	90 lb N - single application			30	35	1	3	1
31	P 25R47							
								1
								1
32	Insecticide - No Fungicide							
32	90 lb N - single application			17	23	0	0	1
32	P 25R37							
								1
								0
33	Insecticide - No Fungicide							
33	90 lb N - single application			18	28	1	4	1
33	P 25R78							
								1
								1
34	Insecticide - No Fungicide							
34	90 lb N - single application			13	15	4	6	0
34	Benton							
								0
35	Insecticide - No Fungicide							
35	90 lb N - single application			47	67	1	1	0
35	FS 539							
								0
								9
36	Insecticide - No Fungicide							
36	115 lb N - single application			23	38	1	1	1
36	P 25R47							
								1
								0

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Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	TRZAW BYD % Incid 05-23-05 26 DAT	TRZAW BYD % Sever 05-23-05 26 DAT	TRZAW TanSpot % Incid 05-23-05 26 DAT	TRZAW TanSpot % Sever 05-23-05 26 DAT	TRZAW LeafBch % Incid 05-23-05 26 DAT	TRZAW LeafBch % Sever 05-23-05 26 DAT	TRZAW LeafRust Percent 05-23-05 26 DAT			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code							
37	Insecticide - No Fungicide 37 115 lb N - single application 37 P 25R37								10	17	1	2	0	0	0
38	Insecticide - No Fungicide 38 115 lb N - single application 38 P 25R78								20	38	11	3	1	1	2
39	Insecticide - No Fungicide 39 115 lb N - single application 39 Benton								13	15	3	4	1	1	1
40	Insecticide - No Fungicide 40 115 lb N - single application 40 FS 539								43	67	4	5	0	0	9
41	Insecticide - No Fungicide 41 115 lb N - split application 41 P 25R47								30	45	5	3	3	1	0
42	Insecticide - No Fungicide 42 115 lb N - split application 42 P 25R37								13	18	1	2	0	0	0
43	Insecticide - No Fungicide 43 115 lb N - split application 43 P 25R78								18	25	4	5	0	0	0
44	Insecticide - No Fungicide 44 115 lb N - split application 44 Benton								15	15	3	3	1	1	1
45	Insecticide - No Fungicide 45 115 lb N - split application 45 FS 539								33	67	0	2	0	0	6
46	Insecticide - Fungicide 46 90 lb N - single application 46 P 25R47								40	60	2	8	2	1	0
47	Insecticide - Fungicide 47 90 lb N - single application 47 P 25R37								8	10	1	1	0	0	0
48	Insecticide - Fungicide 48 90 lb N - single application 48 P 25R78								38	47	1	2	0	0	0
49	Insecticide - Fungicide 49 90 lb N - single application 49 Benton								23	20	3	3	1	1	0
50	Insecticide - Fungicide 50 90 lb N - single application 50 FS 539								57	70	2	2	1	1	0
51	Insecticide - Fungicide 51 115 lb N - single application 51 P 25R47								45	40	2	5	1	3	0
52	Insecticide - Fungicide 52 115 lb N - single application 52 P 25R37								13	13	0	0	1	1	0
53	Insecticide - Fungicide 53 115 lb N - single application 53 P 25R78								20	42	1	2	1	1	0
54	Insecticide - Fungicide 54 115 lb N - single application 54 Benton								20	15	1	5	1	3	0

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Weed Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	
Crop Code	BYD	BYD	TanSpot	TanSpot	LeafBch	LeafBch	LeafRust	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	Percent	
Rating Unit	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	05-23-05	
Rating Date	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	26 DAT	
Trt-Eval Interval								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Prod Unit	Prod Unit	Grow Stg	Appl Code
55	Insecticide - Fungicide							
55	115 lb N - single application							
55	FS 539							
				40		47		1
								3
								1
								1
								0
56	Insecticide - Fungicide							
56	115 lb N - split application							
56	P 25R47							
				40		60		5
								10
								1
								1
								0
57	Insecticide - Fungicide							
57	115 lb N - split application							
57	P 25R37							
				13		10		1
								1
								1
								1
								0
58	Insecticide - Fungicide							
58	115 lb N - split application							
58	P 25R78							
				23		22		1
								4
								1
								2
								0
59	Insecticide - Fungicide							
59	115 lb N - split application							
59	Benton							
				8		15		1
								3
								4
								3
								0
60	Insecticide - Fungicide							
60	115 lb N - split application							
60	FS 539							
				38		60		2
								1
								1
								2
								1
LSD (P=.05)				18.3		18.4		5.6
								4.8
								2.3
								2.7
								4.1
Replicate F				3.338		10.202		7.474
Replicate Prob(F)				0.0404		0.0001		0.0010
Treatment F				4.375		8.924		2.526
Treatment Prob(F)				0.0001		0.0001		0.0219
								0.0001
								0.0196
								0.0098
								0.0005

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Weed Code  
 Crop Code  
 Rating Data Type  
 Rating Unit  
 Rating Date  
 Trt-Eval Interval

TRZAW TRZAW TRZAW TRZAW TRZAW TRZAW TRZAW  
 GlumeBch GlumeBch Height Heads Moisture Test wt. Yield  
 % Incid % Sever cm Mil/A Percent lb/bu bu/A  
 06-01-05 06-01-05 06-01-05 06-01-05 06-22-05 06-22-05 06-22-05  
 EOS EOS EOS EOS EOS EOS EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW GlumeBch % Incid	TRZAW GlumeBch % Sever	TRZAW Height cm	TRZAW Heads Mil/A	TRZAW Moisture Percent	TRZAW Test wt. lb/bu	TRZAW Yield bu/A
1	No Insecticide - No Fungicide 1 90 lb N - single application 1 P 25R47								3	4	84	1.45	12.5	57.5	61
2	No Insecticide - No Fungicide 2 90 lb N - single application 2 P 25R37								4	5	80	1.67	12.0	55.2	45
3	No Insecticide - No Fungicide 3 90 lb N - single application 3 P 25R78								5	6	81	1.89	11.7	55.4	50
4	No Insecticide - No Fungicide 4 90 lb N - single application 4 Benton								2	3	77	2.13	12.2	58.0	47
5	No Insecticide - No Fungicide 5 90 lb N - single application 5 FS 539								5	5	88	1.52	12.2	56.7	52
6	No Insecticide - No Fungicide 6 115 lb N - single application 6 P 25R47								4	5	83	1.52	12.5	57.6	59
7	No Insecticide - No Fungicide 7 115 lb N - single application 7 P 25R37								4	4	84	1.57	12.4	57.3	54
8	No Insecticide - No Fungicide 8 115 lb N - single application 8 P 25R78								8	10	78	1.79	11.6	55.7	47
9	No Insecticide - No Fungicide 9 115 lb N - single application 9 Benton								2	2	87	1.39	12.4	58.8	46
10	No Insecticide - No Fungicide 10 115 lb N - single application 10 FS 539								3	3	93	1.54	12.7	55.2	54
11	No Insecticide - No Fungicide 11 115 lb N - split application 11 P 25R47								4	4	88	1.51	12.4	57.6	58
12	No Insecticide - No Fungicide 12 115 lb N - split application 12 P 25R37								4	4	84	1.63	12.1	57.1	44
13	No Insecticide - No Fungicide 13 115 lb N - split application 13 P 25R78								11	9	86	1.92	12.1	57.4	53
14	No Insecticide - No Fungicide 14 115 lb N - split application 14 Benton								3	4	88	1.87	12.4	59.2	52
15	No Insecticide - No Fungicide 15 115 lb N - split application 15 FS 539								3	4	90	1.50	12.3	57.1	53
16	Fungicide - No Insecticide 16 90 lb N - single application 16 P 25R47								1	1	80	1.72	12.6	57.7	58
17	Fungicide - No Insecticide 17 90 lb N - single application 17 P 25R37								3	2	81	1.74	12.2	57.8	44
18	Fungicide - No Insecticide 18 90 lb N - single application 18 P 25R78								2	3	82	1.73	12.2	56.6	58

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW GlumeBch % Incid 06-01-05 EOS	TRZAW GlumeBch % Sever 06-01-05 EOS	TRZAW Height cm 06-01-05 EOS	TRZAW Heads Mil/A 06-01-05 EOS	TRZAW Moisture Percent 06-22-05	TRZAW Test wt. lb/bu 06-22-05	TRZAW Yield bu/A 06-22-05
19	Fungicide - No Insecticide 90 lb N - single application Benton								2	2	83	1.79	12.1	58.3	55
20	Fungicide - No Insecticide 90 lb N - single application FS 539								2	1	93	1.81	12.6	58.7	48
21	Fungicide - No Insecticide 115 lb N - single application P 25R47								1	1	85	1.33	12.8	58.4	59
22	Fungicide - No Insecticide 115 lb N - single application P 25R37								3	2	83	2.03	11.7	56.3	49
23	Fungicide - No Insecticide 115 lb N - single application P 25R78								3	3	84	1.36	12.2	57.4	54
24	Fungicide - No Insecticide 115 lb N - single application Benton								2	2	81	1.97	12.1	57.4	55
25	Fungicide - No Insecticide 115 lb N - single application FS 539								2	2	95	1.52	13.0	59.0	50
26	Fungicide - No Insecticide 115 lb N - split application P 25R47								2	2	85	1.44	12.7	58.0	56
27	Fungicide - No Insecticide 115 lb N - split application P 25R37								2	2	86	1.81	11.9	55.5	50
28	Fungicide - No Insecticide 115 lb N - split application P 25R78								3	3	86	1.82	12.1	56.9	59
29	Fungicide - No Insecticide 115 lb N - split application Benton								2	2	85	1.80	12.1	58.1	60
30	Fungicide - No Insecticide 115 lb N - split application FS 539								2	3	94	1.52	12.5	57.5	55
31	Insecticide - No Fungicide 90 lb N - single application P 25R47								3	3	86	1.63	12.1	57.2	53
32	Insecticide - No Fungicide 90 lb N - single application P 25R37								4	6	81	1.77	11.6	56.0	61
33	Insecticide - No Fungicide 90 lb N - single application P 25R78								8	10	83	1.42	12.6	58.9	53
34	Insecticide - No Fungicide 90 lb N - single application Benton								3	5	85	1.50	12.0	57.2	49
35	Insecticide - No Fungicide 90 lb N - single application FS 539								4	6	91	1.48	12.2	56.5	53
36	Insecticide - No Fungicide 115 lb N - single application P 25R47								6	7	83	1.48	12.1	57.2	63

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Weed Code	Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Rating Data Type	Rating Unit	GlumeBch	GlumeBch	Height	Heads	Moisture	Test wt.	Yield
Rating Date	Trt-Eval Interval	% Incid	% Sever	cm	Mil/A	Percent	lb/bu	bu/A
		06-01-05	06-01-05	06-01-05	06-01-05	06-22-05	06-22-05	06-22-05
		EOS	EOS	EOS	EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Rate	Prod Unit	Grow Stg	Appl Code
37	Insecticide - No Fungicide							
37	115 lb N - single application							
37	P 25R37	4		4		84	1.48	11.5
38	Insecticide - No Fungicide							
38	115 lb N - single application							
38	P 25R78	7		8		89	1.83	12.7
39	Insecticide - No Fungicide							
39	115 lb N - single application							
39	Benton	2		5		88	1.89	11.9
40	Insecticide - No Fungicide							
40	115 lb N - single application							
40	FS 539	4		3		92	1.63	12.0
41	Insecticide - No Fungicide							
41	115 lb N - split application							
41	P 25R47	2		3		85	1.72	12.1
42	Insecticide - No Fungicide							
42	115 lb N - split application							
42	P 25R37	2		3		84	1.55	11.5
43	Insecticide - No Fungicide							
43	115 lb N - split application							
43	P 25R78	7		7		83	1.59	11.9
44	Insecticide - No Fungicide							
44	115 lb N - split application							
44	Benton	5		6		84	1.79	11.9
45	Insecticide - No Fungicide							
45	115 lb N - split application							
45	FS 539	5		6		94	1.39	11.9
46	Insecticide - Fungicide							
46	90 lb N - single application							
46	P 25R47	1		1		84	1.81	11.6
47	Insecticide - Fungicide							
47	90 lb N - single application							
47	P 25R37	2		3		83	1.26	12.0
48	Insecticide - Fungicide							
48	90 lb N - single application							
48	P 25R78	5		6		84	1.83	11.8
49	Insecticide - Fungicide							
49	90 lb N - single application							
49	Benton	2		3		86	1.89	13.0
50	Insecticide - Fungicide							
50	90 lb N - single application							
50	FS 539	1		1		95	1.51	12.6
51	Insecticide - Fungicide							
51	115 lb N - single application							
51	P 25R47	1		1		86	1.55	11.5
52	Insecticide - Fungicide							
52	115 lb N - single application							
52	P 25R37	5		4		82	1.63	11.8
53	Insecticide - Fungicide							
53	115 lb N - single application							
53	P 25R78	3		3		85	1.87	12.4
54	Insecticide - Fungicide							
54	115 lb N - single application							
54	Benton	3		5		85	1.57	13.1



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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Prod Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	TRZAW GlumeBch % Incid 06-01-05 EOS	TRZAW GlumeBch % Sever 06-01-05 EOS	TRZAW Height cm 06-01-05 EOS	TRZAW Heads Mil/A 06-01-05 EOS	TRZAW Moisture Percent 06-22-05	TRZAW Test wt. lb/bu 06-22-05	TRZAW Yield bu/A 06-22-05
55	Insecticide - Fungicide 55 115 lb N - single application 55 FS 539									1	1	95	1.82	12.5	57.8	57
56	Insecticide - Fungicide 56 115 lb N - split application 56 P 25R47									2	2	83	1.92	11.9	55.8	55
57	Insecticide - Fungicide 57 115 lb N - split application 57 P 25R37									3	3	87	1.72	11.9	54.9	60
58	Insecticide - Fungicide 58 115 lb N - split application 58 P 25R78									2	3	86	1.90	12.3	58.1	56
59	Insecticide - Fungicide 59 115 lb N - split application 59 Benton									2	2	84	1.66	12.7	58.5	54
60	Insecticide - Fungicide 60 115 lb N - split application 60 FS 539									2	2	95	1.74	12.3	57.0	58
LSD (P=.05)										2.7	3.3	5.2	0.429	0.93	3.44	11.4
Replicate F										5.103	2.288	0.609	0.124	3.055	0.794	2.001
Replicate Prob(F)										0.0082	0.1079	0.5465	0.8835	0.0535	0.4561	0.1429
Treatment F										4.204	3.385	5.684	1.590	1.419	1.126	1.462
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0260	0.0807	0.3160	0.0646

## Trial Comments

1. Protocol: SIU (BGY).
2. Ratings: Insect and disease incidence and severity, weed biomass; wheat head counts; percent lodging at harvest; grain yield, moisture, and test weight; save grain sample (5 lb/plot) for additional evaluations.
3. Herbicide applications as needed, apply to all plots.
4. Fall fertilization: N 27 lb/A, P2O5 69 lb/A, K2O 120 lb/A; applied to all plots.
5. Spring fertilization: 28% UAN applied per treatment:  
90 lb N - single application = 90 lb/A at growth stage 5.  
115 lb N - single application = 115 lb/A at growth stage 5.  
115 lb N - split application = 48 and 67 lb/A at growth stage 3 and 5, respectively.  
Spring N fertilizer application for the single application was on 3-10-05.  
Spring N fertilizer application for split applications at growth stage 3 and 5 were on 2-17-05 and 4-1-05, respectively.
6. Pest control (per treatment list):  
Herbicide = Harmony Extra + 2, 4-D + Activator 90 at 0.5 oz/A + 6.0 oz/A + 0.125 %v/v.  
Insecticide = Warrior + Activator 90 at 2.0 oz/A + 0.125 %v/v.  
Fungicide = Headline + Activator 90 at 9.0 oz/A + 0.125 %v/v.
7. Herbicides were applied on 3-31-05.  
Insecticides were applied 4-4-05.  
Fungicides were applied 4-27-05, at 8am, 55 F, 60% RH, 3-7 MPH, clear sky, 52 F soil temperature.  
Wheat stage at fungicide application was: P25R47 = FK9; P25R78 = FK9; FS 539 = FK9; Benton = FK9; and P25R37 = FK9.
8. BYD = Barley yellow dwarf. DAT = Days after fungicide application. % Incid = Percent incidence.  
% Sever = Percent severity. GlumeBch = Glume blotch. TanSpot = Tan spot. LeafRust = Leaf rust.  
EOS = End of season. Mil/A = million/A. Tan spot and leaf blotch were rated on flag leaf and next leaf down only.
9. There was no head scab apparent in any plots. Lodging was not apparent in any plots at harvest.  
Grain samples were not collected due to the general lack of head scab.
10. Harvested 6-22-05, (6) 8 inch rows by 25 ft.