

## Intensive Wheat Management Study - Carbondale.

Project Code: 04-ARC-N8-N140 Location: Agronomy Research Center  
Investigator: Bryan Young

Investigator: Bryan Young, Assistant Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA  
Trial Status: Final Updated: 12-17-04

## Objective:

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

## Weed Code Common Name Scientific Name

1. NA

Crop 1: TRZAW wheat, winter Variety: See note  
Planting Method: Seeded Planting Date: 10-10-03  
Rate: 1.3 mil. S/A Depth: 1.5 IN  
Row Spacing: 7.0 IN

Plot Width, Unit: 5 FT Plot Length, Unit: 30 FT Reps: 3  
Tillage Type: Reduced-Till Study Design: Split-split-plot  
Previous Crop, Year: ZEAMX, 2003

Field Prep./Maintenance: Fall fertilization: N 27 LB/A, P205 69 LB/A, K20 60 LB/A; applied to all plots.  
Spring fertilization and pest control per treatment (see treatment list and comments).

Soil Name: Weir % OM: 1.6 pH: 6.5 CEC: 8.8  
Texture: Silt loam Fert. Level: P1: 83 LB/A, K: 282 LB/A

## APPLICATION DESCRIPTION

A

Application Method: See note

## CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: TRZAW NA  
Height, Unit: NA NA

## APPLICATION EQUIPMENT

A

## NOTES:

Wheat varieties, fertilization, and pest control are listed in the treatments and comments.  
Harvested 6-29-04, (6) 8 inch rows by 25 ft.

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Weed Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW
Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A	
Rating Date	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04	
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS	EOS	EOS	EOS	

Trt No.	Treatment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	No Insecticide - No Fungicide 1 90 lb N - single application 1 P 25R47	1	1	4	5	2	2	0	0	3	2	95	3.38	12.3	49.6	88
2	No Insecticide - No Fungicide 2 90 lb N - single application 2 P 25R37	0	0	13	9	2	1	0	0	0	0	94	3.06	13.6	53.1	71
3	No Insecticide - No Fungicide 3 90 lb N - single application 3 P 25R78	2	2	11	7	4	3	1	1	0	0	92	3.08	12.8	51.7	80
4	No Insecticide - No Fungicide 4 90 lb N - single application 4 Benton	0	0	3	4	7	4	0	0	0	0	93	3.08	12.5	51.5	73
5	No Insecticide - No Fungicide 5 90 lb N - single application 5 FS 539	2	2	4	5	5	4	2	1	3	2	102	3.56	13.5	53.0	75
6	No Insecticide - No Fungicide 6 90 lb N - split application 6 P 25R47	1	1	1	4	4	3	0	0	2	1	91	3.43	12.6	50.4	87
7	No Insecticide - No Fungicide 7 90 lb N - split application 7 P 25R37	0	0	17	9	2	2	0	0	0	0	92	3.14	14.3	52.9	72
8	No Insecticide - No Fungicide 8 90 lb N - split application 8 P 25R78	1	1	7	9	2	3	0	0	0	0	94	3.06	12.8	52.0	79
9	No Insecticide - No Fungicide 9 90 lb N - split application 9 Benton	1	1	3	2	2	1	0	0	0	0	94	2.98	12.7	51.5	72
10	No Insecticide - No Fungicide 10 90 lb N - split application 10 FS 539	2	2	1	2	5	4	2	3	1	1	101	2.99	13.8	53.2	75
11	No Insecticide - No Fungicide 11 115 lb N - single application 11 P 25R47	2	2	3	4	1	2	0	0	2	1	92	2.95	12.3	49.8	89
12	No Insecticide - No Fungicide 12 115 lb N - single application 12 P 25R37	0	0	5	7	4	4	0	0	1	0	95	3.30	13.5	53.3	77
13	No Insecticide - No Fungicide 13 115 lb N - single application 13 P 25R78	1	1	15	9	3	6	1	0	1	3	94	3.33	12.7	51.6	78

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A	
Rating Date	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04	
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS	EOS	EOS	EOS	

Trt No.	Treatment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
14	No Insecticide - No Fungicide 14 115 lb N - single application 14 Benton	1	1	4	3	7	5	0	0	0	0	95	2.67	12.4	51.5	73
15	No Insecticide - No Fungicide 15 115 lb N - single application 15 FS 539	1	2	3	3	5	4	1	1	1	1	103	2.92	13.3	52.6	76
16	No Insecticide - No Fungicide 16 115 lb N - split application 16 P 25R47	1	1	2	4	3	2	0	0	1	1	95	3.82	12.3	50.0	91
17	No Insecticide - No Fungicide 17 115 lb N - split application 17 P 25R37	1	1	10	12	2	2	0	0	0	0	95	2.86	13.4	53.4	74
18	No Insecticide - No Fungicide 18 115 lb N - split application 18 P 25R78	1	2	14	10	8	5	0	0	0	0	95	3.62	12.8	51.6	81
19	No Insecticide - No Fungicide 19 115 lb N - split application 19 Benton	1	1	6	3	3	2	0	0	0	0	94	2.89	12.8	51.8	70
20	No Insecticide - No Fungicide 20 115 lb N - split application 20 FS 539	2	2	3	3	13	8	2	1	2	1	106	3.37	13.4	53.0	80
21	Fungicide - No Insecticide 21 90 lb N - single application 21 P 25R47	1	1	1	1	0	0	0	0	9	3	91	3.30	12.8	50.3	83
22	Fungicide - No Insecticide 22 90 lb N - single application 22 P 25R37	1	1	7	8	0	0	0	0	0	0	90	2.99	13.5	54.0	72
23	Fungicide - No Insecticide 23 90 lb N - single application 23 P 25R78	1	2	2	4	0	0	0	0	2	2	91	2.82	12.9	51.7	81
24	Fungicide - No Insecticide 24 90 lb N - single application 24 Benton	1	1	2	2	0	0	0	0	0	0	93	2.87	12.7	52.4	76
25	Fungicide - No Insecticide 25 90 lb N - single application 25 FS 539	2	1	1	2	0	0	0	0	8	5	103	3.06	13.7	54.3	83
26	Fungicide - No Insecticide 26 90 lb N - split application 26 P 25R47	1	1	1	1	0	0	0	0	3	1	95	4.12	12.7	50.0	90

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A	
Rating Date	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04	
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS				

Trt No.	Treatment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
27	Fungicide - No Insecticide 27 90 lb N - split application 27 P 25R37	1	1	8	6	0	2	0	0	0	0	89	3.21	13.5	54.2	72
28	Fungicide - No Insecticide 28 90 lb N - split application 28 P 25R78	2	2	3	2	0	0	0	0	1	1	94	3.64	13.1	52.1	84
29	Fungicide - No Insecticide 29 90 lb N - split application 29 Benton	1	1	1	1	0	0	0	0	0	0	92	2.92	12.8	52.0	75
30	Fungicide - No Insecticide 30 90 lb N - split application 30 FS 539	3	2	1	2	0	0	0	0	10	6	101	3.48	14.1	55.2	81
31	Fungicide - No Insecticide 31 115 lb N - single application 31 P 25R47	2	2	2	2	1	1	0	0	5	3	91	3.44	12.6	50.1	84
32	Fungicide - No Insecticide 32 115 lb N - single application 32 P 25R37	2	3	4	5	0	0	0	0	0	0	93	2.83	13.6	54.0	76
33	Fungicide - No Insecticide 33 115 lb N - single application 33 P 25R78	2	2	3	3	0	0	0	0	1	1	91	3.01	12.9	52.0	79
34	Fungicide - No Insecticide 34 115 lb N - single application 34 Benton	2	1	1	1	0	0	0	0	0	0	95	3.28	12.6	51.6	72
35	Fungicide - No Insecticide 35 115 lb N - single application 35 FS 539	1	2	1	1	0	0	0	0	11	3	101	3.21	14.0	54.9	83
36	Fungicide - No Insecticide 36 115 lb N - split application 36 P 25R47	1	2	1	1	0	0	0	0	2	1	91	3.05	12.6	50.2	88
37	Fungicide - No Insecticide 37 115 lb N - split application 37 P 25R37	1	2	7	7	0	0	0	0	0	0	92	3.05	13.4	54.1	76
38	Fungicide - No Insecticide 38 115 lb N - split application 38 P 25R78	2	1	2	3	0	0	0	0	1	2	94	3.24	13.1	52.4	90
39	Fungicide - No Insecticide 39 115 lb N - split application 39 Benton	1	1	1	1	0	0	0	0	0	0	96	3.02	12.8	52.3	77

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A	
Rating Date	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04	
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS	EOS	EOS	EOS	

Trt No.	Treatment Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
40	Fungicide - No Insecticide 40 115 lb N - split application 40 FS 539	1	2	1	1	0	0	0	0	5	1	100	3.28	14.1	55.3	86
41	Insecticide - No Fungicide 41 90 lb N - single application 41 P 25R47	2	2	2	2	1	1	0	0	0	0	99	2.89	11.8	50.0	105
42	Insecticide - No Fungicide 42 90 lb N - single application 42 P 25R37	1	2	12	8	7	5	0	0	0	0	96	2.63	12.8	53.7	83
43	Insecticide - No Fungicide 43 90 lb N - single application 43 P 25R78	2	3	7	8	1	1	1	2	0	0	96	3.38	12.5	54.0	92
44	Insecticide - No Fungicide 44 90 lb N - single application 44 Benton	0	0	4	5	13	7	1	1	0	0	96	3.06	12.0	51.9	78
45	Insecticide - No Fungicide 45 90 lb N - single application 45 FS 539	2	4	2	2	6	3	8	3	3	2	105	3.02	13.6	54.5	86
46	Insecticide - No Fungicide 46 90 lb N - split application 46 P 25R47	2	2	4	3	2	3	0	0	1	2	97	3.28	12.4	51.2	101
47	Insecticide - No Fungicide 47 90 lb N - split application 47 P 25R37	2	1	15	12	5	4	0	0	0	0	93	2.86	12.9	54.3	82
48	Insecticide - No Fungicide 48 90 lb N - split application 48 P 25R78	1	1	7	7	4	2	2	2	0	0	96	3.19	12.6	53.9	93
49	Insecticide - No Fungicide 49 90 lb N - split application 49 Benton	1	1	2	3	15	10	0	0	0	0	98	2.90	12.1	52.0	78
50	Insecticide - No Fungicide 50 90 lb N - split application 50 FS 539	2	2	1	2	1	1	5	3	0	0	105	3.83	13.8	55.1	92
51	Insecticide - No Fungicide 51 115 lb N - single application 51 P 25R47	1	2	2	2	1	2	0	0	1	1	94	3.34	12.2	50.9	100
52	Insecticide - No Fungicide 52 115 lb N - single application 52 P 25R37	1	1	13	8	8	3	0	0	0	0	97	2.85	13.0	54.8	83

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A
Rating Unit	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS	EOS	EOS	EOS

Trt No.	Treatment Name	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	
53	Insecticide - No Fungicide 53 115 lb N - single application 53 P 25R78	1	1	7	5	4	4	2	2	0	0	94	3.46	12.5	54.2	96
54	Insecticide - No Fungicide 54 115 lb N - single application 54 Benton	2	2	3	5	15	5	0	0	0	0	99	2.63	12.1	52.0	78
55	Insecticide - No Fungicide 55 115 lb N - single application 55 FS 539	2	3	2	2	5	5	22	5	1	0	108	3.41	13.6	54.8	92
56	Insecticide - No Fungicide 56 115 lb N - split application 56 P 25R47	1	1	2	2	1	1	0	0	1	1	96	3.11	12.4	51.2	99
57	Insecticide - No Fungicide 57 115 lb N - split application 57 P 25R37	1	2	21	12	4	4	0	0	0	0	98	2.61	12.8	53.7	85
58	Insecticide - No Fungicide 58 115 lb N - split application 58 P 25R78	1	2	11	7	2	2	1	1	0	0	96	3.44	12.5	54.2	98
59	Insecticide - No Fungicide 59 115 lb N - split application 59 Benton	1	1	3	5	13	6	0	0	0	0	98	3.59	12.0	51.9	79
60	Insecticide - No Fungicide 60 115 lb N - split application 60 FS 539	2	2	2	2	7	2	10	5	1	1	106	3.35	13.6	54.9	94
61	Insecticide - Fungicide 61 90 lb N - single application 61 P 25R47	1	2	2	3	0	0	0	0	1	1	95	3.47	12.5	50.7	97
62	Insecticide - Fungicide 62 90 lb N - single application 62 P 25R37	2	2	10	7	0	0	0	0	1	1	96	3.05	13.1	53.9	80
63	Insecticide - Fungicide 63 90 lb N - single application 63 P 25R78	2	1	4	6	0	0	0	0	1	1	97	3.59	12.8	53.1	96
64	Insecticide - Fungicide 64 90 lb N - single application 64 Benton	1	1	2	3	1	1	0	0	0	0	96	2.82	12.6	51.9	79
65	Insecticide - Fungicide 65 90 lb N - single application 65 FS 539	3	3	1	1	0	0	0	0	2	2	108	4.01	13.9	54.3	93

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A
Rating Unit	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04
Rating Date	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS	EOS	EOS	EOS
Trt-Eval Interval															
Trt No.															
Treatment Name															
66 Insecticide - Fungicide 66 90 lb N - split application 66 P 25R47	2	2	1	1	0	0	0	0	1	1	92	3.35	12.7	50.5	95
67 Insecticide - Fungicide 67 90 lb N - split application 67 P 25R37	1	2	16	6	0	0	0	0	0	0	97	2.95	13.0	53.3	84
68 Insecticide - Fungicide 68 90 lb N - split application 68 P 25R78	2	3	2	2	0	0	0	0	0	0	96	3.19	12.8	52.5	97
69 Insecticide - Fungicide 69 90 lb N - split application 69 Benton	2	1	1	2	0	0	0	0	0	0	100	3.67	12.6	51.8	83
70 Insecticide - Fungicide 70 90 lb N - split application 70 FS 539	2	2	0	0	0	2	0	0	3	1	104	3.85	14.1	55.1	94
71 Insecticide - Fungicide 71 115 lb N - single application 71 P 25R47	1	1	1	1	0	0	0	0	1	2	94	3.28	12.6	50.4	97
72 Insecticide - Fungicide 72 115 lb N - single application 72 P 25R37	1	1	14	10	0	0	0	0	0	0	97	2.96	13.0	53.5	85
73 Insecticide - Fungicide 73 115 lb N - single application 73 P 25R78	1	2	1	2	0	0	0	0	0	0	97	2.92	12.7	53.2	98
74 Insecticide - Fungicide 74 115 lb N - single application 74 Benton	1	1	1	1	2	3	0	0	0	0	99	2.60	12.5	52.0	85
75 Insecticide - Fungicide 75 115 lb N - single application 75 FS 539	3	3	0	0	0	0	0	0	1	1	109	3.63	13.7	54.5	95
76 Insecticide - Fungicide 76 115 lb N - split application 76 P 25R47	1	1	1	0	0	0	0	0	1	0	97	3.28	12.4	50.5	104
77 Insecticide - Fungicide 77 115 lb N - split application 77 P 25R37	2	1	11	7	0	0	0	0	0	0	99	3.40	12.9	53.5	85
78 Insecticide - Fungicide 78 115 lb N - split application 78 P 25R78	2	2	1	2	0	0	0	0	0	0	94	3.67	12.9	53.1	92

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Crop Code	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	
Rating Data Type	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mill/A	Percent	lb/bu	bu/A	
Rating Date	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	5-20-04	6-1-04	6-10-04	6-21-04	6-21-04	6-21-04	
Trt-Eval Interval	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	23 DAT	EOS	EOS				
Trt No.	Treatment Name															
79	Insecticide - Fungicide															
79	1	1	0	1	0	0	0	0	0	0	99	2.89	12.5	52.0	85	
79	115 lb N - split application															
79	Benton															
80	Insecticide - Fungicide															
80	2	3	1	1	0	0	0	0	1	1	105	3.31	14.0	55.0	99	
80	115 lb N - split application															
80	FS 539															
LSD (P=.05)	1.3	1.9	7.8	4.0	6.9	3.6	5.2	1.6	2.8	2.0	4.7	0.778	0.59	3.44	12.8	
Replicate F	15.636	2.976	6.634	11.634	1.834	4.944	3.619	6.656	3.237	1.831	30.061	59.439	1.224	0.084	0.765	
Replicate Prob(F)	0.0001	0.0539	0.0017	0.0001	0.1631	0.0083	0.0290	0.0017	0.0419	0.1636	0.0001	0.0001	0.2968	0.9190	0.4672	
Treatment F	1.781	1.229	2.971	4.574	2.260	2.898	2.280	2.972	4.891	2.342	7.413	1.409	7.322	1.611	3.827	
Treatment Prob(F)	0.0011	0.1382	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0352	0.0001	0.0059	0.0001	

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, applied to all plots.
4. Fall fertilization: N 27 lb/A, P2O5 69 lb/A, K2O 60 lb/A; applied to all plots was, 150 lb/A DAP (18-46-0) and 100 lb/A potash (0-0-60).
5. Spring fertilization: 28% UAN applied per treatment:
  - 90 lb N - single application = 90 lb/A at growth stage 5.
  - 90 lb N - split application = 48 and 42 lb/A at growth stage 3 and 5, respectively.
  - 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.
  - Fertilizer application for the single application was on 3-10-04.
  - Fertilizer application for split applications at growth stage 3 and 5 were on 2-24-04 and 3-24-04, respectively.
6. Pest control:
  - Insecticide = Warrior + Activator 90 at 2.0 oz/A + 0.125 %v/v.
  - Fungicide = Headline + Activator 90 at 6.0 oz/A + 0.125 %v/v.
  - Herbicide = Harmony Extra + Activator 90 at 5.0 oz/A + 0.25 %v/v.
7. Insecticides were applied 11-13-03.
  - Fungicides were applied 4-27-04, at 5 pm, 64 F, 30% RH, 0 MPH, clear sky.
  - Herbicides were applied on 3-29-04, 3pm.
  - Wheat stage at fungicide application was: P25R47 = FK10; P25R78 = FK10-10.1; FS 539 = FK9-10; Benton = FK9-10; and P25R37 = FK9.
8. HeadScab = Head scab. % Incid = Percent incidence. % Sever = Percent severity. GlumeBch = Glume blotch. TanSpot = Tan spot. LeafRust = Leaf rust. BYD = Barley yellow dwarf. DAT = Days after fungicide application. EOS = end of season. Mill/A = million/A. Tan spot rated on flag leaf and next leaf down only, also present with tan spot, but much less percent incidence, was leaf blotch.
9. Lodging was not apparent in any plots at harvest. Grain samples were not collected due to the general lack of head scab.
10. Prior to double crop soybean planting, there were very few emerged weeds in any plots thus weed biomass was not taken. Double crop soybean yielded 30 bu/A averaged across all treatments.