Intensive Wheat Management Study - Belleville.

Project Code: 04-WF-SE Location: Belleville 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: 10-21-03
Rate: 1.3 mil. S/A Depth: 1.5 IN
Row Spacing: 8 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: GLXMA, 2003

Field Prep./Maintenance: N 27 LB/A; applied to all plots on 10-20-03.
Spring fertilization and pest control per treatment (see treatment list and comments).

Soil Name: Ebbert % OM: 2.1 pH: 5.6 CEC: 10
Texture: Silt loam Fert. Level: P1: 54 LB/A, K: 316 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.
Wheat, harvested 6-20-04, (6) 8 inch rows by 25 ft. Double-crop soybean, harvested 10-25-04, (7) 7.5 inch rows x 23 ft.

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1	No Insecticide - No Fungicide 90 lb N - single application P 25R47	3	4	13	3	5	3	0	0	11	2	82	2.16	14.1	53.2	75	70
2	No Insecticide - No Fungicide 90 lb N - single application P 25R37	2	1	17	3	10	2	0	0	0	0	83	2.51	14.1	54.5	60	66
3	No Insecticide - No Fungicide 90 lb N - single application P 25R78	2	7	17	3	13	2	0	0	1	0	89	2.73	13.8	55.1	71	67
4	No Insecticide - No Fungicide 90 lb N - single application Benton	1	1	6	2	22	4	0	0	0	0	84	2.38	13.6	53.2	60	66
5	No Insecticide - No Fungicide 90 lb N - single application FS 539	3	6	6	2	17	4	0	0	6	2	97	3.17	14.1	56.3	63	65
6	No Insecticide - No Fungicide 90 lb N - split application P 25R47	2	10	27	3	7	4	0	0	9	2	84	2.51	14.0	53.6	79	71
7	No Insecticide - No Fungicide 90 lb N - split application P 25R37	1	1	11	2	5	1	0	0	0	0	83	2.21	14.0	55.2	62	69
8	No Insecticide - No Fungicide 90 lb N - split application P 25R78	2	5	11	2	12	2	0	0	1	0	90	2.03	13.7	55.3	71	67
9	No Insecticide - No Fungicide 90 lb N - split application Benton	1	3	8	2	8	3	0	0	0	0	85	2.11	13.4	53.4	61	61
10	No Insecticide - No Fungicide 90 lb N - split application FS 539	2	5	6	2	18	3	0	0	9	2	98	2.28	14.1	56.4	61	69
11	No Insecticide - No Fungicide 115 lb N - single application P 25R47	2	4	17	3	3	3	0	0	6	1	83	2.85	14.0	53.0	77	67
12	No Insecticide - No Fungicide 115 lb N - single application P 25R37	2	1	10	3	8	1	0	0	0	0	83	2.13	14.0	54.7	64	68
13	No Insecticide - No Fungicide 115 lb N - single application P 25R78	2	4	8	2	7	2	0	0	1	1	90	2.69	13.6	55.2	75	70

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14	No Insecticide - No Fungicide 115 lb N - single application Benton	1	1	11	2	20	4	0	0	0	0	86	2.50	13.4	53.3	64	65
15	No Insecticide - No Fungicide 115 lb N - single application FS 539	4	5	7	2	23	16	0	0	13	3	97	2.66	14.0	56.3	65	69
16	No Insecticide - No Fungicide 115 lb N - split application P 25R47	3	9	9	3	3	2	0	0	7	2	84	2.73	14.0	53.7	82	69
17	No Insecticide - No Fungicide 115 lb N - split application P 25R37	1	3	10	2	5	1	0	0	0	0	85	2.37	14.1	55.5	66	69
18	No Insecticide - No Fungicide 115 lb N - split application P 25R78	2	6	9	3	12	2	0	0	2	1	91	2.57	13.8	55.3	79	72
19	No Insecticide - No Fungicide 115 lb N - split application Benton	1	1	15	2	23	4	0	0	0	0	86	2.50	13.5	53.3	64	64
20	No Insecticide - No Fungicide 115 lb N - split application FS 539	2	6	6	2	20	7	0	0	11	2	99	2.58	14.2	56.1	65	63
21	Fungicide - No Insecticide 90 lb N - single application P 25R47	3	6	6	2	0	0	0	0	5	2	88	2.72	14.0	53.1	84	66
22	Fungicide - No Insecticide 90 lb N - single application P 25R37	1	2	9	3	0	0	0	0	0	0	82	2.12	14.1	55.0	64	63
23	Fungicide - No Insecticide 90 lb N - single application P 25R78	2	6	6	2	0	0	0	0	0	0	90	2.58	13.9	55.1	76	68
24	Fungicide - No Insecticide 90 lb N - single application Benton	1	3	4	2	24	12	0	0	0	0	92	2.76	13.5	53.5	69	70
25	Fungicide - No Insecticide 90 lb N - single application FS 539	2	5	8	2	0	0	0	0	12	4	100	2.29	14.3	56.5	67	64
26	Fungicide - No Insecticide 90 lb N - split application P 25R47	2	5	6	2	0	0	0	0	10	2	89	2.86	14.0	53.0	86	68

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27	Fungicide - No Insecticide 90 lb N - split application P 25R37	1	1	7	2	0	0	0	0	1	1	82	2.34	14.1	55.1	65	69
28	Fungicide - No Insecticide 90 lb N - split application P 25R78	4	9	6	2	0	0	0	0	3	1	90	2.21	13.9	55.0	73	65
29	Fungicide - No Insecticide 90 lb N - split application Benton	2	3	7	2	24	7	0	0	0	0	92	2.29	13.5	54.1	73	70
30	Fungicide - No Insecticide 90 lb N - split application FS 539	3	9	9	2	0	0	0	0	14	4	102	2.73	14.1	56.4	69	67
31	Fungicide - No Insecticide 115 lb N - single application P 25R47	2	3	6	2	0	0	0	0	8	2	87	2.76	14.0	52.8	87	66
32	Fungicide - No Insecticide 115 lb N - single application P 25R37	1	1	10	2	0	0	0	0	1	1	83	2.12	14.2	55.4	68	66
33	Fungicide - No Insecticide 115 lb N - single application P 25R78	3	8	5	3	0	0	0	0	1	1	90	2.86	13.8	55.0	78	68
34	Fungicide - No Insecticide 115 lb N - single application Benton	1	5	10	2	12	6	0	0	0	0	92	3.31	13.2	53.7	73	67
35	Fungicide - No Insecticide 115 lb N - single application FS 539	2	5	8	2	0	0	0	0	13	2	98	2.92	14.3	56.5	71	67
36	Fungicide - No Insecticide 115 lb N - split application P 25R47	2	5	7	2	0	0	0	0	5	2	89	2.73	13.8	53.7	89	65
37	Fungicide - No Insecticide 115 lb N - split application P 25R37	2	2	6	2	0	0	0	0	1	1	84	2.28	14.2	55.5	68	64
38	Fungicide - No Insecticide 115 lb N - split application P 25R78	3	7	4	2	0	0	0	0	6	2	92	3.05	13.8	55.0	79	67
39	Fungicide - No Insecticide 115 lb N - split application Benton	2	3	8	2	17	9	0	0	0	0	94	3.06	13.5	53.4	71	66

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40	Fungicide - No Insecticide 115 lb N - split application FS 539	3	7	6	2	0	0	0	0	10	2	101	1.95	14.1	56.8	75	66
41	Insecticide - No Fungicide 90 lb N - single application P 25R47	2	2	12	2	3	1	0	0	4	1	89	2.29	13.8	53.4	84	72
42	Insecticide - No Fungicide 90 lb N - single application P 25R37	1	1	22	2	9	3	0	0	1	1	82	2.60	14.2	54.6	61	62
43	Insecticide - No Fungicide 90 lb N - single application P 25R78	2	11	9	2	12	3	0	0	0	0	89	2.29	13.6	54.9	77	65
44	Insecticide - No Fungicide 90 lb N - single application Benton	1	2	8	2	32	4	0	0	0	0	87	2.12	13.5	54.1	69	70
45	Insecticide - No Fungicide 90 lb N - single application FS 539	2	7	6	1	24	6	0	0	8	2	97	2.16	14.4	55.8	67	66
46	Insecticide - No Fungicide 90 lb N - split application P 25R47	2	5	10	2	2	1	0	0	6	1	90	2.50	13.9	53.3	86	66
47	Insecticide - No Fungicide 90 lb N - split application P 25R37	1	2	17	3	4	2	0	0	2	1	82	2.27	13.9	55.3	62	67
48	Insecticide - No Fungicide 90 lb N - split application P 25R78	2	6	9	2	13	3	0	0	1	1	89	2.54	13.8	55.4	78	67
49	Insecticide - No Fungicide 90 lb N - split application Benton	1	2	12	2	21	3	0	0	0	0	86	2.19	13.5	53.6	69	60
50	Insecticide - No Fungicide 90 lb N - split application FS 539	3	5	5	2	37	6	0	0	10	3	98	2.29	14.1	56.1	70	72
51	Insecticide - No Fungicide 115 lb N - single application P 25R47	2	5	11	2	8	3	0	0	5	2	90	2.67	13.7	53.3	89	68
52	Insecticide - No Fungicide 115 lb N - single application P 25R37	2	1	17	3	10	3	0	0	1	1	84	2.70	14.1	54.6	67	72

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53	Insecticide - No Fungicide 115 lb N - single application P 25R78	2	7	7	2	21	3	0	0	1	1	90	2.40	13.8	55.6	80	69
54	Insecticide - No Fungicide 115 lb N - single application Benton	1	3	12	2	13	4	0	0	0	0	88	2.86	13.5	53.7	70	64
55	Insecticide - No Fungicide 115 lb N - single application FS 539	3	6	5	2	35	7	0	0	9	2	97	2.18	14.2	56.0	72	66
56	Insecticide - No Fungicide 115 lb N - split application P 25R47	2	3	8	2	7	2	0	0	5	1	92	2.44	13.8	53.5	90	70
57	Insecticide - No Fungicide 115 lb N - split application P 25R37	2	3	16	3	3	2	0	0	1	1	85	2.70	14.2	54.9	67	67
58	Insecticide - No Fungicide 115 lb N - split application P 25R78	1	10	8	2	13	3	0	0	1	1	91	2.63	13.8	55.2	80	65
59	Insecticide - No Fungicide 115 lb N - split application Benton	2	3	11	3	28	5	0	0	0	0	88	2.56	13.3	53.4	72	68
60	Insecticide - No Fungicide 115 lb N - split application FS 539	3	7	6	1	28	21	0	0	14	3	100	2.35	14.5	56.2	71	68
61	Insecticide - Fungicide 90 lb N - single application P 25R47	2	4	8	2	0	0	0	0	6	2	86	2.54	14.1	53.4	84	61
62	Insecticide - Fungicide 90 lb N - single application P 25R37	1	3	6	2	0	0	0	0	1	1	91	1.89	14.2	55.7	69	68
63	Insecticide - Fungicide 90 lb N - single application P 25R78	3	11	8	2	0	0	0	0	1	1	90	2.89	14.2	55.1	74	68
64	Insecticide - Fungicide 90 lb N - single application Benton	1	4	12	2	3	3	0	0	0	0	87	2.13	13.7	53.9	70	65
65	Insecticide - Fungicide 90 lb N - single application FS 539	3	6	5	2	0	0	0	0	11	2	98	2.35	14.4	56.7	68	67

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66	Insecticide - Fungicide 90 lb N - split application P 25R47	2	5	9	2	0	0	0	0	6	2	88	2.40	14.3	53.7	84	62
67	Insecticide - Fungicide 90 lb N - split application P 25R37	2	2	5	2	0	0	0	0	0	0	89	1.92	14.1	55.5	72	67
68	Insecticide - Fungicide 90 lb N - split application P 25R78	3	8	6	2	0	0	0	0	1	1	89	2.19	14.0	55.1	76	60
69	Insecticide - Fungicide 90 lb N - split application Benton	2	3	18	2	4	4	0	0	0	0	85	2.35	13.8	54.4	72	68
70	Insecticide - Fungicide 90 lb N - split application FS 539	3	8	7	2	0	0	0	0	13	2	100	2.42	14.2	56.8	71	63
71	Insecticide - Fungicide 115 lb N - single application P 25R47	2	4	8	2	0	0	0	0	3	1	88	2.64	14.0	53.4	88	66
72	Insecticide - Fungicide 115 lb N - single application P 25R37	1	4	7	2	0	0	0	0	0	0	92	2.54	14.2	55.8	75	72
73	Insecticide - Fungicide 115 lb N - single application P 25R78	3	8	7	3	0	0	0	0	0	0	90	2.64	13.9	55.3	80	64
74	Insecticide - Fungicide 115 lb N - single application Benton	2	3	7	2	1	2	0	0	0	0	88	2.47	13.7	53.9	73	70
75	Insecticide - Fungicide 115 lb N - single application FS 539	4	11	4	2	0	0	0	0	9	2	100	2.51	14.2	57.2	73	61
76	Insecticide - Fungicide 115 lb N - split application P 25R47	3	6	8	2	0	0	0	0	4	1	90	2.40	14.1	53.5	90	64
77	Insecticide - Fungicide 115 lb N - split application P 25R37	1	2	4	2	0	0	0	0	1	0	92	2.22	14.1	55.5	79	65
78	Insecticide - Fungicide 115 lb N - split application P 25R78	3	11	5	2	0	0	0	0	3	1	90	2.32	14.0	55.5	82	67

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Weed Code																
Crop Code	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	TRZAW	GLXMA
Rating Data Type	HeadScab	HeadScab	GlumeBch	GlumeBch	TanSpot	TanSpot	LeafRust	LeafRust	BYD	BYD	Height	Heads	Moisture	Test wt.	Yield	Yield
Rating Unit	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	% Incid	% Sever	cm	Mil/A	Percent	lb/bu	bu/A	bu/A
Rating Date	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	5-25-04	6-2-04	6-20-04	6-20-04	6-20-04	10-25-04
Trt-Eval Interval	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	30 DAT	EOS				
Trt No. Treatment Name																
79 Insecticide - Fungicide	1	4	10	2	2	2	0	0	0	0	88	2.67	13.7	54.1	73	66
79 115 lb N - split application																
79 Benton																
80 Insecticide - Fungicide	3	6	6	2	0	0	0	0	9	4	101	2.00	14.5	56.8	72	64
80 115 lb N - split application																
80 FS 539																
LSD (P=.05)	1.3	5.0	11.4	1.3	19.5	7.8	0.1	0.1	5.9	1.5	5.6	0.670	0.41	0.72	8.4	8.1
Replicate F	12.659	2.445	23.593	5.454	8.648	11.206	2.026	2.026	24.267	13.163	11.175	16.275	164.568	21.444	50.292	25.546
Replicate Prob(F)	0.0001	0.0900	0.0001	0.0051	0.0003	0.0001	0.1353	0.1353	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Treatment F	2.699	2.292	1.099	0.920	2.020	1.569	1.000	1.000	4.316	3.662	7.251	1.517	3.665	20.717	6.880	0.977
Treatment Prob(F)	0.0001	0.0001	0.3054	0.6570	0.0001	0.0087	0.4914	0.4914	0.0001	0.0001	0.0001	0.0139	0.0001	0.0001	0.0001	0.5380

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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, and K2O 60 lb/A applied to all plots was, 150 lb/A DAP (18-46-0) and 100 lb/A potash (0-0-60) on 10-20-03.
5. Spring fertilization: 32% UAN applied per treatment:
   90 lb N - single application = 90 lb/A at growth stage.
   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 3-17-04.
   Fertilizer application for split applications at growth stage 3 and 5 were on 2-25-04 and 4-1-04, 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.
7. Insecticides were applied on 12-6-03, FK2.
   Fungicides were applied 4-27-04, at 5 pm, 64 F, 30% RH, 0 MPH, clear sky.
   Herbicides were not applied, not needed.
   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. Mil/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. Wheat, harvested 6-20-04, (6) 8 inch rows by 25 ft. Double-crop soybean, harvested 10-25-04, (7) 7.5 inch rows x 23 ft. Double crop soybean yielded 67 bu/A averaged across all treatments.