

Headline Fungicide Evaluation in Wheat.

Project Code: 04-NF-NS40 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: 8-3-04

Objective:

Evaluate Headline and Apogee for use in intensive wheat management.

Weed Code	Common Name	Scientific Name
1. STEME	chickweed, common	Stellaria media (L.) Vill.
2. LAMAM	henbit	Lamium amplexicaule L.
3. RANAB	buttercup, smallflower	Ranunculus abortivus L.

Crop 1:	TRZAW wheat, winter	Variety:	P25R78
Planting Method:	Seeded	Planting Date:	10-13-03
Rate:	100 lb seed/A	Depth:	1.0 IN
Row Spacing:	7.5 IN	Seed Bed:	No-till

Plot Width, Unit:	10 FT	Plot Length, Unit:	30 FT	Reps:	3
Tillage Type:	No-Till	Study Design:	Randomized complete block		
Previous Crop, Year:	GLXMA, 2003				

Field Prep./Maintenance: N 30 LB/A applied on 10-13-03, N 80 LB/A applied on 2-18-04.

Soil Name:	Stoy	% OM:	2.2	pH:	6.5	CEC:	10
Texture:	Silt loam	Fert. Level:	P1: 77 LB/A,	K:	474 LB/A		

APPLICATION DESCRIPTION

	A	B	C
Application Date:	4-2-04	4-2-04	4-26-04
Time of Day:	11:00	9:00	10:00
Application Method:	Hand spread	Spray	Spray
Application Timing:	FK5	FK5	FK10
Applic. Placement:	BROFOL	BROFOL	BROFOL
	F	F	F
Wind Velocity, Unit:	5 MPH	5 MPH	3 MPH
Soil Moisture:	NORMAL	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	TRZAW F5	TRZAW F5	TRZAW F10
Height, Unit:	6-8 IN	6-8 IN	20 IN

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code:		STEME	
Stage(leaves):		10+	
Height(inches):		4-6	
Density:		Medium	
Weed 2 Code:		LAMAM	
Stage(leaves):		10+	
Height(inches):		4-6	
Density:		Medium	
Weed 3 Code:		RANAB	
Stage(leaves):		10+	
Height(inches):		3-5	
Density:		Low	

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	Hand spread	CO2 sprayer	CO2 sprayer
Operating Pressure:	NA	40 PSI	40 PSI
Nozzle Type:	NA	Flat fan	Flat fan
Nozzle Size:	NA	8002	8002
Boom Length, Unit:	10 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	NA NA	20 GPA	20 GPA

NOTES:

Fertilizer application is 10 FT wide.
 Harvested 6-23-04, (7) 7.5 inch rows by 27 ft.

Southern Illinois University

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Weed Code		TRZAW TRZAW TRZAW TRZAW TRZAW TRZAW TRZAW TRZAW LAMAM CAPBP STEME																		
Crop Code		Moisture Test wt. Yield DISINC DISINC DISSEV DISSEV HEIRED Control Control Control																		
Rating Data Type		Percent lb/bu bu/A Percent Percent Percent Percent Percent Percent Percent Percent Percent Percent																		
Rating Unit		6-23-04 6-23-04 6-23-04 4-23-04 5-17-04 4-23-04 5-17-04 4-30-04 4-30-04 4-30-04																		
Rating Date		21 DA-B 21 DA-C 21 DA-B 21 DA-C 28 DA-B 28 DA-B 28 DA-B 28 DA-B																		
Trt-Eval Interval																				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code											
1	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B	13.0	53.5	76	0	1	0	1	0	99	99	99
1	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FK5	B											
2	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B	13.1	54.1	77	0	0	0	0	0	99	99	99
2	HEADLINE	2.09	EC	0.049	LB A/A	3.0	FL OZ/A	FK5	B											
2	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FK5	B											
3	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B	13.0	54.0	76	0	1	0	2	0	99	99	99
3	HEADLINE	2.09	EC	0.098	LB A/A	6.0	FL OZ/A	FK5	B											
3	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FK5	B											
4	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B	13.1	54.0	77	0	0	0	0	0	99	99	99
4	HEADLINE	2.09	EC	0.049	LB A/A	3.0	FL OZ/A	FK5	B											
4	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FK5	B											
4	HEADLINE	2.09	EC	0.098	LB A/A	6.0	FL OZ/A	FK10	C											
4	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	FK10	C											
5	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B	12.8	53.3	74	0	1	0	2	0	99	99	99
5	ACTIVATOR 90	100	LIQ	0.25	% V/V	0.25	% V/V	FK5	B											
5	HEADLINE	2.09	EC	0.098	LB A/A	6.0	FL OZ/A	FK10	C											
5	ACTIVATOR 90	100	LIQ	0.125	% V/V	0.125	% V/V	FK10	C											
6	FERTILIZER 46-0-0	46	DRY	25	LB A/A	54.3	LB/A	FK5	A	12.6	52.5	74	0	0	0	2	0	99	99	99
6	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B											
6	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	% V/V	FK5	B											
7	FERTILIZER 46-0-0	46	DRY	25	LB A/A	54.3	LB/A	FK5	A	12.4	52.8	74	0	1	0	0	20	99	99	99
7	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B											
7	APOGEE	27.5	WG	0.0344	LB A/A	2.0	OZ/A	FK5	B											
7	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	% V/V	FK5	B											
8	FERTILIZER 46-0-0	46	DRY	25	LB A/A	54.3	LB/A	FK5	A	12.4	52.5	74	0	0	0	0	25	99	99	99
8	HARMONY EXTRA	75	WG	0.0234	LB A/A	0.5	OZ/A	FK5	B											
8	APOGEE	27.5	WG	0.069	LB A/A	4.0	OZ/A	FK5	B											
8	ACTIVATOR 90	100	LIQ	0.5	% V/V	0.5	% V/V	FK5	B											
9	NONTREATED									13.0	54.1	73	0	2	0	4	0	0	0	0
LSD (P=.05)										0.48	1.57	6.1	0.0	1.2	0.0	3.2	5.0	0.0	0.0	0.0
Replicate F										1.675	5.485	0.067	0.000	1.421	0.000	0.675	1.000	0.000	0.000	0.000
Replicate Prob(F)										0.2186	0.0153	0.9352	1.0000	0.2705	1.0000	0.5232	0.3897	1.0000	1.0000	1.0000
Treatment F										3.048	1.743	0.562	0.000	2.598	0.000	1.253	36.000	0.000	0.000	0.000
Treatment Prob(F)										0.0276	0.1638	0.7935	1.0000	0.0495	1.0000	0.3324	0.0001	1.0000	1.0000	1.0000

Trial Comments

1. Protocol: BASF.
2. Ratings: WC 28 DA FK5; disease incidence and severity 21 DA fungicide treatments; grain yield; maybe wheat grain quality.
3. No disease evident at 4-2-04 application.
4. DISINC = Disease Incidence. DISSEV = Disease Severity. HEIRED = Height Reduction.
5. DA-B = days after FK5 application. DA-C = days after FK10 application.
6. 21 DA-C was also 45 days after the FK5 application.