

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
Investigator: Ronald F. Krausz

Trial Status: F one-year/final
Initiation Date: 10-21-15
Completion Date: 6-20-16

Trial Location

City: Belleville **Country:** USA
State/Prov.: Illinois IL
Postal Code: 62221

Objectives:

To evaluate control of winter annual grasses and broadleaf weeds in no-till winter wheat.

Contacts

Study Director: Karla Gage, Ph.D. **Title:** Assistant Professor of Weed Science
Organization: Southern Illinois University Carbondale
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Country: USA

Crop Description

Crop 1: TRZAW Triticum aestivum (winter) Winter wheat
Variety: P25R46 **BBCH Scale:** BCER
Planting Rate, Unit: 1.5 millionS/A **Planting Date:** 10-21-15
Depth, Unit: 1 IN **Planting Method:** SEEDED
Row Spacing, Unit: 7.5 IN

Pest Description

Pest 1 Type: W **Code:** STEME *Stellaria media* (L.) Vill.
Common Name: chickweed, common

Pest 2 Type: W **Code:** LAMAM *Lamium amplexicaule* L.
Common Name: henbit

Pest 3 Type: W **Code:** CAPBP *Capsella bursa-pastoris*(L.)M
Common Name: shepherdspurse

Pest 4 Type: W **Code:** RANAB *Ranunculus abortivus* L.
Common Name: buttercup, smallflower

Pest 5 Type: D **Code:** PUCCSI *Puccinia striiformis tritici*
Common Name: Yellow rust of wheat
Description: aka wheat stripe rust

Site and Design

Treated Plot Width: 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD
Treated Plot Length: 25 FT **Total Plot Length:** 25 FT **Experimental Unit:** 1 PLOT
Tillage Type: NOTILL no-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	GLXMA	2015

Maintenance

No.	Maintenance Product Name
1.	Fall: N 30 LB/A, P2O5 0 LB/A, K2O 0 LB/A
2.	Spring: N 85 LB/A, P2O5 0 LB/A, K2O 0 LB/A

Soil Description

Description Name: 26B_2013
% OM: 2.7 **Texture:** SIL silt loam
pH: 6.8 **Soil Name:** Pierron
CEC: 7

Additional Measured Elements

Element	Quantity	Unit
P1	59	lb/A
K	282	lb/A

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Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL
Closest Weather Station: ICN - Belleville IL

Distance, Unit: 0.5 MI

No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	10-2-15					7	DAY	48	82	F
2.	10-9-15					7	DAY	42	79	F
3.	10-12-15	0.01	IN	RAIN	rain	1	DAY			
4.	10-16-15					7	DAY	30	84	F
5.	10-23-15					7	DAY	38	72	F
6.	10-27-15	0.62	IN	RAIN	rain	2	DAY			
7.	10-30-15					7	DAY	33	71	F
8.	10-31-15	0.26	IN	RAIN	rain	1	DAY			
9.	11-3-15	0.02	IN	RAIN	rain	2	DAY			
10.	11-5-15	0.67	IN	RAIN	rain	2	DAY			
11.	11-6-15					7	DAY	30	67	F
12.	11-11-15	0.21	IN	RAIN	rain	1	DAY			
13.	11-13-15					7	DAY	30	70	F
14.	11-16-15	2.52	IN	RAIN	rain	3	DAY			
15.	11-20-15					7	DAY	20	64	F
16.	11-21-15	0.49	IN	RAIN	rain	1	DAY			
17.	11-27-15					7	DAY	27	63	F
18.	11-27-15	1.72	IN	RAIN	rain	2	DAY			
19.	11-30-15	0.11	IN	RAIN	rain	2	DAY			
20.	12-4-15					7	DAY	23	66	F
21.	12-11-15					7	DAY	30	70	F
22.	12-13-15	0.83	IN	RAIN	rain	4	DAY			
23.	12-18-15					7	DAY	24	63	F
24.	12-21-15	7.18	IN	RAIN	rain	8	DAY			
25.	12-25-15					7	DAY	27	56	F
26.	1-1-16					7	DAY	18	49	F
27.	1-7-16	0.56	IN	RAIN	rain	3	DAY			
28.	1-8-16					7	DAY	7	62	F
29.	1-15-16					7	DAY	4	50	F
30.	1-15-16	0.09	IN	RAIN	rain	1	DAY			
31.	1-20-16	0.08	IN	RAIN	rain	1	DAY			
32.	1-22-16					7	DAY	20	56	F
33.	1-25-16	0.01	IN	RAIN	rain	1	DAY			
34.	1-29-16					7	DAY	24	71	F
35.	2-2-16	0.03	IN	RAIN	rain	1	DAY			
36.	2-5-16					7	DAY	12	57	F
37.	2-10-16	0.02	IN	RAIN	rain	1	DAY			
38.	2-12-16					7	DAY	11	58	F
39.	2-14-16	0.07	IN	RAIN	rain	1	DAY			
40.	2-16-16	0.04	IN	RAIN	rain	1	DAY			
41.	2-19-16					7	DAY	30	76	F
42.	2-20-16	0.04	IN	RAIN	rain	1	DAY			
43.	2-24-16	0.2	IN	RAIN	rain	1	DAY			
44.	2-26-16					7	DAY	21	73	F
45.	3-1-16	0.01	IN	RAIN	rain	1	DAY			
46.	3-3-16	0.04	IN	RAIN	rain	1	DAY			
47.	3-4-16					7	DAY	26	72	F
48.	3-4-16	0.01	IN	RAIN	rain	1	DAY			
49.	3-9-16	0.34	IN	RAIN	rain	4	DAY			
50.	3-11-16					7	DAY	41	79	F
51.	3-13-16	0.55	IN	RAIN	rain	1	DAY			
52.	3-18-16					7	DAY	31	70	F

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53.	3-18-16	0.13	IN	RAIN	rain	3	DAY			
54.	3-24-16	0.16	IN	RAIN	rain	1	DAY			
55.	3-25-16					7	DAY	34	75	F
56.	3-27-16	0.16	IN	RAIN	rain	1	DAY			
57.	3-30-16	0.2	IN	RAIN	rain	2	DAY			
58.	4-1-16					7	DAY	32	75	F
59.	4-6-16	0.49	IN	RAIN	rain	1	DAY			
60.	4-8-16					7	DAY	28	71	F
61.	4-10-16	0.97	IN	RAIN	rain	2	DAY			
62.	4-15-16					7	DAY	48	81	F
63.	4-20-16	0.45	IN	RAIN	rain	3	DAY			
64.	4-22-16					7	DAY	47	85	F
65.	4-26-16	1.74	IN	RAIN	rain	2	DAY			
66.	4-29-16					7	DAY	46	75	F
67.	4-29-16	1.94	IN	RAIN	rain	2	DAY			
68.	5-4-16	0.02	IN	RAIN	rain	1	DAY			
69.	5-6-16					7	DAY	44	87	F
70.	5-7-16	0.07	IN	RAIN	rain	1	DAY			
71.	5-9-16	2.12	IN	RAIN	rain	5	DAY			
72.	5-13-16					7	DAY	41	76	F
73.	5-16-16	1.06	IN	RAIN	rain	2	DAY			
74.	5-20-16					7	DAY	51	83	F
75.	5-20-16	0.06	IN	RAIN	rain	1	DAY			
76.	5-25-16	0.68	IN	RAIN	rain	3	DAY			
77.	5-27-16					7	DAY	62	88	F
78.	5-31-16	0.03	IN	RAIN	rain	2	DAY			
79.	6-3-16					7	DAY	55	89	F
80.	6-3-16	0.01	IN	RAIN	rain	1	DAY			
81.	6-4-16	0.72	IN	RAIN	rain	1	DAY			
82.	6-10-16					7	DAY	65	96	F
83.	6-13-16	0.03	IN	RAIN	rain	1	DAY			
84.	6-17-16					7	DAY	67	97	F
85.	6-21-16	0.01	IN	RAIN	rain	1	DAY			
86.	6-24-16					7	DAY	57	95	F
87.	6-25-16	0.02	IN	RAIN	rain	1	DAY			
88.	6-30-16	0.03	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C	D
Application Date:	10-23-15	11-20-15	3-18-16	5-3-16
Appl. Start Time:	10:00	10:00	10:00	10:00
Appl. Stop Time:	10:30	10:30	10:30	10:30
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	DELAYPRE	3LEAF	FK4	FK10.5.1
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	RFK	RFK	RFK	RFK
Air Temperature, Unit:	69 F	52 F	52 F	61 F
% Relative Humidity:	71	34	38	52
Wind Velocity, Unit:	2 MPH	2 MPH	3 MPH	3 MPH
Wind Direction:	E	SE	N	NE
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	62 F	50 F	51 F	61 F
Soil Moisture:	BELNOR	ABONOR	NORMAL	ABONOR
% Cloud Cover:	100	0	25	25
Next Moisture Occurred On:	10-27-15	11-21-15	3-18-16	5-4-16
Time to Next Moisture, Unit:	4 DAY	17 HR	11 HR	20 HR

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Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale:	TRZAW	TRZAW	TRZAW	TRZAW
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	F2	F4	F10.5.1
Stage Minimum, Percent:		F2	F4	F10.5.1
Stage Maximum, Percent:		F2	F4	F10.5.1
Height, Unit:		5 IN	8 IN	34 IN
Height Minimum, Maximum:		4 5	6 8	32 34

Pest Stage At Each Application

	A	B	C	D
Pest 1 Code, Type, Scale:	STEME W	STEME W	STEME W	STEME W
Stage Majority, Percent:	10+	10+	10+	NA
Stage Minimum, Percent:	10+	10+	10+	
Stage Maximum, Percent:	10+	10+	10+	
Height, Unit:	0.5 IN	1 IN	4 IN	
Height Minimum, Maximum:	0.25 0.5	0.25 1	3 4	
Density, Unit:	0.1 FT2	0.1 FT2	0.1 FT2	
Pest 2 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W	LAMAM W
Stage Majority, Percent:	10+	10+	10+	NA
Stage Minimum, Percent:	10+	10+	10+	
Stage Maximum, Percent:	10+	10+	10+	
Height, Unit:	0.5 IN	1 IN	6 IN	
Height Minimum, Maximum:	0.25 0.5	0.25 1	4 6	
Density, Unit:	0.01 FT2	0.1 FT2	0.1 FT2	
Pest 3 Code, Type, Scale:	CAPBP W	CAPBP W	CAPBP W	CAPBP W
Stage Majority, Percent:	6	6	10+	NA
Stage Minimum, Percent:	5	5	10+	
Stage Maximum, Percent:	6	6	10+	
Height, Unit:	0.5 IN	1 IN	4 IN	
Height Minimum, Maximum:	0.25 0.5	0.25 1	4 8	
Density, Unit:	0.001 FT2	0.001 FT2	0.001 FT2	
Pest 4 Code, Type, Scale:	RANAB W	RANAB W	RANAB W	RANAB W
Stage Majority, Percent:	NA	4	6	NA
Stage Minimum, Percent:		2	4	
Stage Maximum, Percent:		4	6	
Height, Unit:		1 IN	2 IN	
Height Minimum, Maximum:		0.25 1	1 2	
Density, Unit:		0.1 FT2	0.01 FT2	
Pest 5 Code, Type, Scale:	PUCCSI D	PUCCSI D	PUCCSI D	PUCCSI D
Stage Majority, Percent:	NA	NA	NA	NA

Application Equipment

	A	B	C	D
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR	XR
Nozzle Size:	8002	8002	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Pest Code								TRZAW	TRZAW	TRZAW					
Crop Code								6-20-16	6-20-16	6-20-16					
Rating Date								Moisture	Test wt.	Yield					
Rating Type								Percent	lb/bu	bu/A					
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A	11.9	ab	58.3	a	88	ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C						
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D						
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D						
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C	12.1	a	58.9	a	94	a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C						
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D						
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D						
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	11.3	de	54.0	bc	65	c
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	11.8	abc	58.3	a	93	a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D						
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	11.4	de	53.9	bc	66	c
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	11.2	e	53.8	bc	62	cd
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C						
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	11.9	ab	58.5	a	93	a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C						
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D						
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	12.1	a	58.8	a	92	ab
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A						
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D						
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A	11.4	de	53.4	c	63	cd
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A						
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C						
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C						
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C						

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

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Pest Code							TRZAW	TRZAW	TRZAW			
Crop Code							6-20-16	6-20-16	6-20-16			
Rating Date							Moisture	Test wt.	Yield			
Rating Type							Percent	lb/bu	bu/A			
Rating Unit												
Rating Timing												
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code			
10	POWERFLEX HL	13	WG	0.0163 lb ai/a		2 oz/a		3LEAF	B	11.6 bcd	54.5 bc	64 cd
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			3LEAF	B			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			3LEAF	B			
11	POWERFLEX HL	13	WG	0.0163 lb ai/a		2 oz/a		FK4	C	11.4 de	54.7 bc	61 cd
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			FK4	C			
12	SENCOR	75	WG	0.188 lb ai/a		4 oz/a		3LEAF	B	11.5 cde	54.7 bc	66 c
13	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a		0.75 oz/a		3LEAF	B	11.4 de	54.1 bc	63 cd
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			3LEAF	B			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			3LEAF	B			
14	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a		0.75 oz/a		FK4	C	11.3 de	54.9 b	59 d
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			FK4	C			
15	POWERFLEX HL	13	WG	0.0163 lb ai/a		2 oz/a		FK4	C	12.0 a	58.9 a	86 b
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v			FK4	C			
	TOPGUARD	1.04	SC	0.081 lb ai/a		10 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v			FK10.5.1	D			
16	NONTREATED									11.5 cde	55.2 b	67 c
LSD P=.05							0.40	1.38	5.9			
Standard Deviation							0.28	0.97	4.2			
CV							2.39	1.74	5.64			
Replicate F							1.945	2.339	6.733			
Replicate Prob(F)							0.1358	0.0862	0.0008			
Treatment F							5.228	20.502	44.837			
Treatment Prob(F)							0.0001	0.0001	0.0001			

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Pest Code							TRZAW	TRZAW	TRZAW	TRZAW	TRZAW			
Crop Code							Injury	Injury	3-18-16	4-2-16	4-17-16			
Rating Date							Percent	Percent	Injury	Injury	Injury			
Rating Type							15 DA-A	30 DA-A	Percent	Percent	Percent			
Rating Unit							15 DA-B	30 DA-B	0 DA-C	15 DA-C	30 DA-C			
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C				10 a	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A	0 a	0 a	0 a	0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
Investigator: Ronald F. Krausz

Pest Code							TRZAW	TRZAW	TRZAW	TRZAW	TRZAW		
Crop Code									3-18-16	4-2-16	4-17-16		
Rating Date									Injury	Injury	Injury		
Rating Type									Percent	Percent	Percent		
Rating Unit									15 DA-A	15 DA-C	15 DA-C		
Rating Timing									30 DA-A	30 DA-C	30 DA-C		
Trt-Eval Interval									15 DA-B	30 DA-B	0 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code					
10	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	3LEAF	B	0 a	0 a	0 a	0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	3LEAF	B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	3LEAF	B					
11	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	FK4	C				0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
12	SENCOR	75	WG	0.188 lb ai/a	4 oz/a	4 oz/a	3LEAF	B	0 a	0 a	0 a	0 b	0 a
13	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a	0.75 oz/a	3LEAF	B	0 a	0 a	0 a	0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	3LEAF	B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	3LEAF	B					
14	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a	0.75 oz/a	FK4	C				0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
15	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	FK4	C				0 b	0 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a	10 fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK10.5.1	D					
16	NONTREATED								0	0	0	0	0
LSD P=.05									0.0	0.0	0.0	0.0	0.0
Standard Deviation									0.0	0.0	0.0	0.0	0.0
CV									0.0	0.0	0.0	0.0	0.0
Replicate F									0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)									1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F									0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)									1.0000	1.0000	1.0000	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code							STEME	STEME	STEME	STEME	STEME			
Crop Code							Control	Control	3-18-16	4-2-16	4-17-16			
Rating Date							Percent	Percent	Control	Control	Control			
Rating Type							15 DA-A	30 DA-A	Percent	Percent	Percent			
Rating Unit							15 DA-B	30 DA-B	0 DA-C	15 DA-C	30 DA-C			
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C			50 d	90 d	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	92 bc	90 bc	90 d
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	92 bc	92 bc	97 ab
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	90 bc	90 bc	95 bc
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	94 b	94 b	94 bcd
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A	99 a	97 a	89 c	89 c	96 abc
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code							LAMAM	LAMAM	LAMAM	LAMAM	LAMAM
Crop Code											
Rating Date									3-18-16	4-2-16	4-17-16
Rating Type							Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent
Rating Timing							15 DA-A	30 DA-A	0 DA-C	15 DA-C	30 DA-C
Trt-Eval Interval							15 DA-B	30 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	ANTHEM FLEX	4	SE	0.078 lb ai/a	2.5 fl oz/a		DELAYPRE A	A	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			
	NIMBLE	75	WG	0.0234 lb ai/a	0.5 oz/a		FK4	C			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C			
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D			
	MUSTANG MAXX	0.8	EC	0.02 lb ai/a	3.2 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D			
2	ANTHEM FLEX	4	SE	0.078 lb ai/a	2.5 fl oz/a		FK4	C			50 d
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	16 fl oz/a		FK4	C			94 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C			
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D			
	MUSTANG MAXX	0.8	EC	0.02 lb ai/a	3.2 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D			
3	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078 lb ai/a	2.5 fl oz/a		DELAYPRE A	A			99 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			
4	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078 lb ai/a	2.5 fl oz/a		DELAYPRE A	A			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D			
5	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	90 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			90 b
6	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	93 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			93 ab
	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a		FK4	C			97 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C			
7	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	93 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			93 ab
	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a		FK4	C			97 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C			
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D			
8	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		DELAYPRE A	A	99 a	99 a	93 ab
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		DELAYPRE A	A			93 ab
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D			
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D			
9	GRAMOXONE 2 SL	2	SL	0.5 lb ai/a	2 pt/a		DELAYPRE A	A	99 a	96 b	84 bc
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		DELAYPRE A	A			89 b
	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a		FK4	C			95 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C			
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C			

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code							LAMAM	LAMAM	LAMAM	LAMAM	LAMAM			
Crop Code														
Rating Date									3-18-16	4-2-16	4-17-16			
Rating Type									Control	Control	Control			
Rating Unit									Percent	Percent	Percent			
Rating Timing									0 DA-C	15 DA-C	30 DA-C			
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
10	POWERFLEX HL NIS (ACTIVATOR 90) N-PAK AMS	13 100 100	WG SL SL	0.0163 0.25 % 2.5 %	lb ai/a v/v v/v	2 0.25 % 2.5 %	oz/a v/v v/v	3LEAF 3LEAF 3LEAF	B B B	25 c	50 c	93 ab	93 ab	93 ab
11	POWERFLEX HL NIS (ACTIVATOR 90) N-PAK AMS	13 100 100	WG SL SL	0.0163 0.25 % 2.5 %	lb ai/a v/v v/v	2 0.25 % 2.5 %	oz/a v/v v/v	FK4 FK4 FK4	C C C			50 d	90 b	
12	SENCOR	75	WG	0.188	lb ai/a	4	oz/a	3LEAF	B	44 b	50 c	97 a	97 ab	97 ab
13	HARMONY EXTRA SG NIS (ACTIVATOR 90) N-PAK AMS	50 100 100	SG SL SL	0.0234 0.25 % 2.5 %	lb ai/a v/v v/v	0.75 0.25 % 2.5 %	oz/a v/v v/v	3LEAF 3LEAF 3LEAF	B B B	38 b	50 c	80 c	80 c	80 c
14	HARMONY EXTRA SG NIS (ACTIVATOR 90) N-PAK AMS	50 100 100	SG SL SL	0.0234 0.25 % 2.5 %	lb ai/a v/v v/v	0.75 0.25 % 2.5 %	oz/a v/v v/v	FK4 FK4 FK4	C C C			50 d	94 ab	
15	POWERFLEX HL NIS (ACTIVATOR 90) N-PAK AMS TOPGUARD NIS (ACTIVATOR 90)	13 100 100 1.04 100	WG SL SL SC SL	0.0163 0.25 % 2.5 % 0.081 0.25 %	lb ai/a v/v v/v lb ai/a v/v	2 0.25 % 2.5 % 10 0.25 %	oz/a v/v v/v fl oz/a v/v	FK4 FK4 FK4 FK10.5.1 FK10.5.1	C C C D D			50 d	92 ab	
16	NONTREATED									0	0	0	0	0
LSD P=.05							8.1	1.8	9.8	8.5	8.7			
Standard Deviation							5.6	1.2	6.8	5.9	6.1			
CV							6.85	1.42	7.33	7.3	6.54			
Replicate F							1.667	1.249	1.859	0.949	1.221			
Replicate Prob(F)							0.1952	0.3096	0.1578	0.4254	0.3140			
Treatment F							115.239	1397.152	3.304	46.236	2.528			
Treatment Prob(F)							0.0001	0.0001	0.0054	0.0001	0.0103			

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code									CAPBP	CAPBP	CAPBP	CAPBP	CAPBP	
Crop Code														
Rating Date											3-18-16	4-2-16	4-17-16	
Rating Type									Control	Control	Control	Control	Control	
Rating Unit									Percent	Percent	Percent	Percent	Percent	
Rating Timing									15 DA-A	30 DA-A	0 DA-C	15 DA-C	30 DA-C	
Trt-Eval Interval									15 DA-B	30 DA-B				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C			50 b	98 a	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A	99 a	99 a	99 a	99 a	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code							CAPBP	CAPBP	CAPBP	CAPBP	CAPBP		
Crop Code													
Rating Date									3-18-16	4-2-16	4-17-16		
Rating Type									Control	Control	Control		
Rating Unit									Percent	Percent	Percent		
Rating Timing									0 DA-C	15 DA-C	30 DA-C		
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit Stage	Appl Code					
10	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	3LEAF	B	25 c	50 b	99 a	99 a	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	3LEAF	B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	3LEAF	B					
11	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	FK4	C				50 b	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
12	SENCOR	75	WG	0.188 lb ai/a	4 oz/a	4 oz/a	3LEAF	B	44 b	50 b	99 a	99 a	99 a
13	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a	0.75 oz/a	3LEAF	B	38 b	50 b	99 a	99 a	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	3LEAF	B					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	3LEAF	B					
14	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a	0.75 oz/a	FK4	C				50 b	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
15	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a	2 oz/a	FK4	C				50 b	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK4	C					
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v	2.5 % v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a	10 fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v	0.25 % v/v	FK10.5.1	D					
16	NONTREATED								0	0	0	0	0
LSD P=.05									8.1	.	.	.	0.8
Standard Deviation									5.6	0.0	0.0	0.0	0.5
CV									6.85	0.0	0.0	0.0	0.54
Replicate F									1.667	0.000	0.000	0.000	0.834
Replicate Prob(F)									0.1952	1.0000	1.0000	1.0000	0.4829
Treatment F									115.239	0.000	0.000	0.000	0.956
Treatment Prob(F)									0.0001	1.0000	1.0000	1.0000	0.5117

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
Investigator: Ronald F. Krausz

Pest Code								RANAB	RANAB	RANAB	RANAB	RANAB		
Crop Code														
Rating Date										3-18-16	4-2-16	4-17-16		
Rating Type								Control	Control	Control	Control	Control		
Rating Unit								Percent	Percent	Percent	Percent	Percent		
Rating Timing								15 DA-A	30 DA-A	0 DA-C	15 DA-C	30 DA-C		
Trt-Eval Interval								15 DA-B	30 DA-B					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code					
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A		99 a	99 a	99 a	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C			50 d	99 a	
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	97 a	97 ab	97 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	99 a	99 a	99 a
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	95 a	92 c	92 b
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	97 a	97 ab	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	95 a	95 bc	98 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		99 a	99 a	99 a	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D					
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A		99 a	97 a	97 ab	97 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A					
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code							RANAB	RANAB	RANAB	RANAB	RANAB				
Crop Code															
Rating Date									3-18-16	4-2-16	4-17-16				
Rating Type									Control	Control	Control				
Rating Unit									Percent	Percent	Percent				
Rating Timing															
Trt-Eval Interval									0 DA-C	15 DA-C	30 DA-C				
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Stage	Appl Code					
10	POWERFLEX HL	13	WG	0.0163	lb ai/a	2	oz/a	3LEAF		B	6 b	50 b	99 a	99 a	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	3LEAF		B					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3LEAF		B					
11	POWERFLEX HL	13	WG	0.0163	lb ai/a	2	oz/a	FK4		C			50 d	99 a	
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4		C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4		C					
12	SENCOR	75	WG	0.188	lb ai/a	4	oz/a	3LEAF		B	0 b	0 c	97 a	97 ab	96 a
13	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	3LEAF		B	25 a	50 b	99 a	99 a	99 a
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	3LEAF		B					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	3LEAF		B					
14	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4		C			50 d	99 a	
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4		C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4		C					
15	POWERFLEX HL	13	WG	0.0163	lb ai/a	2	oz/a	FK4		C			50 d	99 a	
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4		C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4		C					
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1		D					
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1		D					
16	NONTREATED										0	0	0	0	0
LSD P=.05							12.5	0.3	4.7	3.8	3.3				
Standard Deviation							7.2	0.2	3.3	2.6	2.3				
CV							69.28	0.29	3.35	3.11	2.34				
Replicate F							1.000	3.750	1.452	2.595	1.779				
Replicate Prob(F)							0.4547	0.0212	0.2474	0.0651	0.1659				
Treatment F							13.000	81020.008	1.127	271.578	2.783				
Treatment Prob(F)							0.0066	0.0001	0.3753	0.0001	0.0052				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
 Investigator: Ronald F. Krausz

Pest Code								PUCCSI	PUCCSI		
Crop Code								TRZAW	TRZAW		
Rating Date								5-24-16	5-24-16		
Rating Type								Incidence	Severity		
Rating Unit								Percent	Percent		
Rating Timing											
Trt-Eval Interval								21 DA-D	21 DA-D		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code		
1	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A	90 c	4 d
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
	NIMBLE	75	WG	0.0234	lb ai/a	0.5	oz/a	FK4	C		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C		
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D		
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
2	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	FK4	C	90 c	3 d
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	16	fl oz/a	FK4	C		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C		
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D		
	MUSTANG MAXX	0.8	EC	0.02	lb ai/a	3.2	fl oz/a	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
3	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	94 b	43 bc
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	90 c	3 d
	ANTHEM FLEX	4	SE	0.078	lb ai/a	2.5	fl oz/a	DELAYPRE	A		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
5	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	95 a	43 bc
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	95 a	46 ab
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C		
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	90 c	3 d
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C		
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	DELAYPRE	A	90 c	4 d
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	DELAYPRE	A		
	TOPGUARD	1.04	SC	0.081	lb ai/a	10	fl oz/a	FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK10.5.1	D		
9	GRAMOXONE 2 SL	2	SL	0.5	lb ai/a	2	pt/a	DELAYPRE	A	95 a	46 ab
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	DELAYPRE	A		
	HARMONY EXTRA SG	50	SG	0.0234	lb ai/a	0.75	oz/a	FK4	C		
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FK4	C		
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	FK4	C		

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
Investigator: Ronald F. Krausz

Pest Code							PUCCSI	PUCCSI		
Crop Code							TRZAW	TRZAW		
Rating Date							5-24-16	5-24-16		
Rating Type							Incidence	Severity		
Rating Unit							Percent	Percent		
Rating Timing										
Trt-Eval Interval							21 DA-D	21 DA-D		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
10	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a		3LEAF	B	95 a	50 a
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		3LEAF	B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		3LEAF	B		
11	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a		FK4	C	95 a	39 c
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C		
12	SENCOR	75	WG	0.188 lb ai/a	4 oz/a		3LEAF	B	95 a	43 bc
13	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a		3LEAF	B	95 a	46 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		3LEAF	B		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		3LEAF	B		
14	HARMONY EXTRA SG	50	SG	0.0234 lb ai/a	0.75 oz/a		FK4	C	95 a	46 ab
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C		
15	POWERFLEX HL	13	WG	0.0163 lb ai/a	2 oz/a		FK4	C	90 c	4 d
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK4	C		
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		FK4	C		
	TOPGUARD	1.04	SC	0.081 lb ai/a	10 fl oz/a		FK10.5.1	D		
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FK10.5.1	D		
16	NONTREATED								95 a	46 ab
LSD P=.05							0.9	7.2		
Standard Deviation							0.6	5.1		
CV							0.67	17.43		
Replicate F							1.000	7.319		
Replicate Prob(F)							0.4016	0.0004		
Treatment F							61.800	67.507		
Treatment Prob(F)							0.0001	0.0001		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Could not calculate LSD (% mean diff) for columns 9,14,19,24,29,17,22,27 because error mean square = 0.

Weed Control in No-Till Winter Wheat.

Trial ID: 16-26B Location: Belleville Res. Center Trial Year: 2016
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: FMC (15NA.NNNGW.A.H.F.I.NVH01) and SIU/RFK.
2. Ratings:
CI and WC at 15 + 30 DA-A; 0, 15, 30 DA-B; and 0, 15 + 30 DA-C.
CI + DI/DS at 21 DA-D.
Rate before spray applications B + C.
3. Yield if possible.
4. Application timing A (DELAYPRE) = 48-72 hours after planting.
Application timing B (3LEAF) = Fall application, anytime after 2 leaf wheat.
Application timing C (FK4) = Spring application, before FK5.
Application timing D (FK10.5.1) = Beginning flowering.
5. Rainfall following the DELAYPRE application A was 0.62 inch over 2 days beginning 4 days later.
Rainfall following the 3LEAF application B was 0.49 inch over 1 day beginning 17 hours later.
Rainfall following the FK4 application C was 0.13 inch over 3 days beginning 11 hours later.
Rainfall following the FK10.5.1 application D was 0.02 inch over 1 day beginning 20 hours later.
6. On 11-7-15 at 15 DA-A, RANAB had not yet emerged in the nontreated plots, and so could not be rated.
Ratings at 15 days after application A and B were on 11-7-15 and 12-5-15, respectively.
Ratings at 30 days after application A and B were on 11-22-15 and 12-20-15, respectively.
Ratings at 15 DA-A were also 0 DA-B.
7. PUCCSI = *Puccinia striiformis tritici* (Yellow rust of wheat) also known as wheat stripe rust.
8. Harvested 6-20-16, (7) 7.5 inch rows by 22 ft.