

2014/2015/Winter Wheat/Anthem Flex/Conventional Tillage/

Trial ID: 15WHEAT3
Protocol ID: PYR.WHEA.14.14.JPR.01(oo)
Project ID:

Location: Western Branch C5 Trial Year: 2014
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: Joe Reed, FMC

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Discipline: H herbicide
Trial Status: E established
Initiation Date: 10-27-2014

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.861616 N
Longitude of LL Corner °: -83.678298 W
Altitude of LL Corner, Unit: 1098.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: TRZAW Triticum aestivum (winter) Winter wheat
Variety: SC 1342
Description: Seed Consultants
Seed Size, Unit: 12850 SEED/LB

Planting Rate, Unit: 126 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 7.5 IN
Planting Density, Unit: 1619100 S/A
Soil Temperature, Unit: 56 F
Soil Moisture: GOOD good
Seed Bed: MEDIUM medium

Planting Date: 10-27-2014
Planting Method: DRILLE drilled
Planting Equipment: DD Disc Drill
Emergence Date: 11-17-2014

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 10
Replications: 3
% Slope: 2.0
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB L Randomized Complete Block (RCB)

No. Previous Crop Year
1. Soybean 2014

Soil Description

Description Name: CR 5
% OM: 1.2 **Texture:** SIC silty clay
pH: 6.4 **Soil Name:** Crosby
CEC: 12.5 **Fert. Level:** G good
Soil Drainage: G good

Analyzed By:
Spectrum Analytic, Inc. Washington Court House, Ohio

Additional Measured Elements

Date **Element** **Quantity** **Unit**
4-16-2015 28% UAN 33 GPA

Application Description

	A	B	C
Application Date:	10-27-2014	11-7-2014	12-4-2014
Appl. Start Time:	5:30 PM	12:02 PM	1:00 PM
Appl. Stop Time:	5:45 PM	12:05 PM	1:25 PM
Application Method:	SPRAY	SRPAY	SPRAY
Application Timing:	PRE	DELPRE	POST
Application Placement:	BROSOI	BROSOI	BROFOL
Applied By:	Reeb	Dobbels	Dobbels
Air Temperature, Unit:	76 F	39 F	34 F
% Relative Humidity:	48	67	67
Wind Velocity, Unit:	8 MPH	6 MPH	2 MPH
Wind Direction:	SE	NNW	E
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	56 F	42 F	38 F
Soil Moisture:	NORMAL	MOIST	WET
% Cloud Cover:	85	70	100
Next Moisture Occurred On:	10-28-2014	11-11-2014	12-5-2014
Time to Next Moisture, Unit:	1 DAY	4 DAY	1 DAY

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	TRZAW	BCER	TRZAW	BCER	TRZAW	BCER
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			05	100	11	100
Height, Unit:					1.5	IN
Height Minimum, Maximum:					1	2

Application Equipment

	A		B		C	
Appl. Equipment:	6 FOOT	BOOM	6 FOOT	BOOM	6 FOOT	BOOM
Equipment Type:	SPRBAC		SPRBAC		SPRBAC	
Operation Pressure, Unit:	46	PSI	46	PSI	46	PSI
Nozzle Type:	AI XR		AI XR		AI XR	
Nozzle Size:	110015		110015		110015	
Nozzle Spacing, Unit:	18	IN	18	IN	18	IN
Boom Length, Unit:	10	FT	10	FT	10	FT
Boom Height, Unit:	20	IN	20	IN	20	IN
Ground Speed, Unit:	3	MPH	3	MPH	3	MPH
Carrier:	WATER		WATER		WATER	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA
Mix Size, Unit:	1	Liters	1	Liters	1	Liters
Propellant:	CO2		CO2		CO2	

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Pest Type W Weed
 Pest Code AMBTR
 Pest Scientific Name Ambrosia trifida
 Pest Name Giant ragweed
 Crop Code TRZAW TRZAW
 BBCH Scale BCER BCER
 Crop Scientific Name Triticum aestivum Triticum aestivum
 Crop Name Winter wheat Winter wheat
 Rating Date 12-4-2014 4-29-2015 7-1-2015
 Rating Type PHYCHL PHYTHI CONTRO
 Rating Unit % % %
 Number of Subsamples 1 1 1
 Rating Timing HARVEST
 Days After First/Last Applic. 38 27 184 146 247 209
 Plant-Eval Interval 38 DP-1 184 DP-1 247 DP-1
 Days After Emergence 17 DE-1 163 DE-1 226 DE-1
 Number of Decimals 0 0 0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3
1	UNTREATED				0 a	6 a	0 b
2	F9312-3	2.5 oz/a		A	0 a	13 a	25 a
3	F9312-3	3.0 oz/a		A	3 a	6 a	27 a
4	F9312-3	3.8 oz/a		A	0 a	7 a	28 a
5	F9312-3	3.8 oz/a		B	0 a	10 a	28 a
6	F9312-3	3.0 oz/a		A	0 a	8 a	27 a
6	POWERFLEX	2.5 oz/a		C			
6	NIS	0.25 % v/v		C			
6	AMMONIUM SULFATE	5 % v/v		C			
7	POWERFLEX	2.5 oz/a		C	0 a	7 a	28 a
7	NIS	0.25 % v/v		C			
7	AMMONIUM SULFATE	5 % v/v		C			
8	POWERFLEX	3.5 oz/a		C	0 a	2 a	30 a
8	NIS	0.25 % v/v		C			
8	AMMONIUM SULFATE	5 % v/v		C			
9	F9312-3	3.8 oz/a		A	0 a	10 a	30 a
9	SENCOR	2 oz/a		C			

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Code	TRZAW		TRZAW	
BBCH Scale	BCER		BCER	
Crop Scientific Name	Triticum aestivum		Triticum aestivum	
Crop Name	Winter wheat		Winter wheat	
Rating Date	12-4-2014		4-29-2015	7-1-2015
Rating Type	PHYCHL		PHYTHI	CONTRO
Rating Unit	%		%	%
Number of Subsamples	1		1	1
Rating Timing				HARVEST
Days After First/Last Applic.	38 27		184 146	247 209
Plant-Eval Interval	38 DP-1		184 DP-1	247 DP-1
Days After Emergence	17 DE-1		163 DE-1	226 DE-1
Number of Decimals	0		0	0

Trt Treatment	Other Rate	Other Rate	Appl Unit Code	1	2	3
10 AUTHORITY MTZ	5.5 oz/a		C	0 a	3 a	25 a
LSD P=.05				3.1	10.8	7.7
Standard Deviation				1.8	6.3	4.5
CV				547.72	87.56	18.05
Grand Mean				0.3	7.2	24.8
Bartlett's X2				0.0	3.607	2.533
P(Bartlett's X2)				.	0.891	0.865
Skewness				5.4772*	0.3639	-1.9615*
Kurtosis				30.0*	-1.0945	3.1939*
Replicate F				1.000	2.977	0.539
Replicate Prob(F)				0.3874	0.0764	0.5924
Treatment F				1.000	0.869	11.839
Treatment Prob(F)				0.4742	0.5683	0.0001

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

AMBTR, Ambrosia trifida, = US

Crop Code

TRZAW, BCER, Triticum aestivum (winter), = US

Rating Type

PHYCHL = phytotoxicity - chlorosis

PHYTHI = phytotoxicity - thinning

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

38 DP-1 = 1 TRZAW 10-27-2014

184 DP-1 = 1 TRZAW 10-27-2014

247 DP-1 = 1 TRZAW 10-27-2014