2007 Winter Wheat BAS 800UFH Tolerance and efficacy with Spring 2008 POST applications.
Trial ID: 08Wheat 800 SpringPost Protocol ID: 07Wheat 800 SpringPost
Location: Concord, NE Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

General Trial Information

Study Director: Stevan Knezevic
Investigator: Stevan Knezevic

Trial Location

City: Concord
State/Prov.: NE
Postal Code: 68728
Country: USA

Cooperator/Landowner

Cooperator: Haskell Agricultural Laboratory Country: USA
Organization: University of Nebraska Phone No: 402-584-2261
Address 1: 57905 866 RD Fax No: 402-584-3859
City: Concord
State/Prov: NE
Postal Code: 68728

Crop Description

Crop 1: TRZAW Triticum aestivum (winter) Winter wheat
Variety: Overley
BBCH Scale: BCER Planting Date: 10-05-07
Planting Method: DRILLED Rate, Unit: 75 LB/A
Depth, Unit: 1 in
Row Spacing, Unit: 8 in
Soil Moisture: wet
Harvest Date: 07-17-08 Harvest Equipment: Almaco SP-20
Harvested Length, Unit: 27 ft
% Standard Moisture: 13.0 Moisture Meter: Dickey John GAC 2000
Weighing Equipment: Ohaus 100# scale

Site and Design

Plot Width, Unit: 10 FT Site Type: FIELD
Plot Length, Unit: 30 FT Tillage Type: NO-TILL
Replications: 3 Study Design: Randomized Complete Block

Soil Description

Description Name: 06 Corn Herb
% Sand: 10 % OM: 3.6 Texture: SILTY CLAY LOAM
% Silt: 58 pH: 6.8 Soil Name: Baltic
% Clay: 32 CEC: 21.4 Fert. Level: excellent

Application Description

	A
Application Date:	05-21-08
Time of Day:	11:00 am
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	66 F
% Relative Humidity:	30
Wind Velocity, Unit:	4 mph
Wind Direction:	SE
Dew Presence (Y/N):	Y
Soil Temperature, Unit:	50 F
Soil Moisture:	ADEQUATE
% Cloud Cover:	25

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	TRZAW BCER
Stage Scale Used:	BBCH
Stage Majority, Percent:	4 nodes 90
Stage Minimum, Percent:	3 nodes 10
Height, Unit:	15 in
Height Minimum, Maximum:	12 18

Application Equipment

	A
Appl. Equipment:	BACKPACK
Operating Pressure, Unit:	32 PSI
Nozzle Type:	TURBO TEE
Nozzle Size:	11002
Nozzle Spacing, Unit:	18 IN
Boom Length, Unit:	6 FT
Boom Height, Unit:	12 IN
Ground Speed, Unit:	2.7 MPH
Carrier:	WATER
Spray Volume, Unit:	20 GPA

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Description							Wheat	Wheat	Wheat (60#)	Wheat	Wheat	Wheat	Wheat	Wheat
Rating Date							05-30-08	06-04-08	07-17-08	07-17-08	07-17-08	07-17-08	07-17-08	07-17-08
Rating Data Type							Crop Inj	Crop Inj	Yield	Moisture	Test Weight	Plot weight	Plot Width	Plot Length
Rating Unit							Percent	Percent	Bu/A@13%	Percent	lb/bu	lb	feet	feet
Days After First/Last Applic.							9 9	14 14	57 57	57 57	57 57	57 57	57 57	57 57
Trt-Eval Interval							9 DA-A	14 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A	57 DA-A
Plant-Eval Interval							238 DP-1	243 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage								
1	BAS 800 03H	0.7128	oz/a	6.26	g a/ha	Spring	0.3 gh	0.0 f	79.9 ab	13.6 cd	58.6 abc	15.9 a	5.3 a	27.0 a
	Ammonium Sulfate	17	lb/100 gal			Spring								
2	BAS 800 03H	1.4256	oz/a	12.5	g a/ha	Spring	1.3 gh	0.0 f	79.6 ab	12.7 cd	58.6 abc	15.7 a	5.3 a	27.0 a
	Ammonium Sulfate	17	lb/100 gal			Spring								
3	BAS 800 03H	2.8512	oz/a	25	g a/ha	Spring	5.7 fgh	0.0 f	78.0 ab	13.5 cd	59.0 abc	15.6 ab	5.3 a	27.0 a
	Ammonium Sulfate	17	lb/100 gal			Spring								
4	BAS 800 03H	11.4048	oz/a	100	g a/ha	Spring	14.0 e	5.7 ef	71.3 bc	13.1 cd	59.5 ab	13.5 cd	5.1 a	27.0 a
	Ammonium Sulfate	17	lb/100 gal			Spring								
5	BAS 800 03H	22.8096	oz/a	200	g a/ha	Spring	36.7 c	28.3 c	53.5 d	14.3 bc	56.5 c	10.8 e	5.3 a	27.0 a
	Ammonium Sulfate	17	lb/100 gal			Spring								
6	BAS 800 03H	0.7128	oz/a	6.26	g a/ha	Spring	3.0 gh	1.0 f	78.7 ab	13.0 cd	58.6 abc	15.6 ab	5.3 a	27.0 a
	NIS	0.25	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
7	BAS 800 03H	1.4256	oz/a	12.5	g a/ha	Spring	6.3 fgh	2.0 ef	77.0 ab	13.0 cd	58.0 abc	15.7 a	5.5 a	27.0 a
	NIS	0.25	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
8	BAS 800 03H	2.8512	oz/a	25	g a/ha	Spring	11.7 ef	3.7 ef	78.8 ab	12.6 cd	58.5 abc	14.8 abc	5.1 a	27.0 a
	NIS	0.25	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
9	BAS 800 03H	11.4048	oz/a	100	g a/ha	Spring	28.3 d	16.7 d	65.9 c	12.9 cd	59.8 a	13.1 d	5.3 a	27.0 a
	NIS	0.25	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
10	BAS 800 03H	22.8096	oz/a	200	g a/ha	Spring	50.0 b	35.0 b	47.3 de	15.4 b	53.6 d	9.3 ef	5.2 a	27.0 a
	NIS	0.25	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
11	BAS 800 03H	0.7128	oz/a	6.26	g a/ha	Spring	7.0 fg	1.7 ef	75.9 abc	13.1 cd	58.9 abc	15.1 abc	5.3 a	27.0 a
	COC	1	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
12	BAS 800 03H	1.4256	oz/a	12.5	g a/ha	Spring	11.7 ef	3.7 ef	73.0 bc	11.9 d	57.0 bc	14.3 a-d	5.3 a	27.0 a
	COC	1	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
13	BAS 800 03H	2.8512	oz/a	25	g a/ha	Spring	16.7 e	7.3 e	70.3 bc	13.2 cd	58.6 abc	14.0 bcd	5.3 a	27.0 a
	COC	1	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
14	BAS 800 03H	11.4048	oz/a	100	g a/ha	Spring	38.3 c	35.0 b	39.6 ef	16.1 b	52.3 d	8.1 fg	5.3 a	27.0 a
	COC	1	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
15	BAS 800 03H	22.8096	oz/a	200	g a/ha	Spring	63.3 a	68.3 a	34.6 f	22.6 a	43.7 e	7.4 g	5.1 a	27.0 a
	COC	1	% v/v			Spring								
	Ammonium Sulfate	17	lb/100 gal			Spring								
16	Nontreated Check						0.0 h	0.0 f	84.6 a	13.1 cd	58.2 abc	16.0 a	5.1 a	27.0 a
LSD (P=.05)							6.93	6.13	10.41	1.83	2.64	1.71	0.36	0.00
Standard Deviation							4.16	3.68	6.25	1.09	1.58	1.03	0.22	0.00
CV							22.59	28.23	9.18	7.82	2.78	7.65	4.08	0.0
Grand Mean							18.4	13.02	68.0	14.01	56.84	13.43	5.28	27.0
Replicate F							0.439	2.666	5.157	0.453	0.719	4.826	1.410	0.000
Replicate Prob(F)							0.6487	0.0859	0.0119	0.6402	0.4953	0.0152	0.2598	1.0000
Treatment F							64.744	83.020	18.629	15.995	19.655	24.152	0.882	0.000
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.5894	1.0000

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.

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Additional Treatment Information
Rate Unit
OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O
LB/100 GAL = Pounds Dry Product per 100 Gallons Mix (Metric=KG/100 L)|]
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z
Other Rate Unit
G A/HA = Grams Active Ingredient per Hectare