

2008 Winter Wheat BAS 800 03H Tolerance and efficacy with fall 2007 POST applications.
 Trial ID: 08Wheat 800 Fall07Post Protocol ID: 08Wheat 800 Fall07Post
 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: Overlay
 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: 6 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:	11-16-07
Time of Day:	1:30 pm
Application Method:	spray
Application Timing:	POST FALL
Application Placement:	foliar
Applied By:	js
Air Temperature, Unit:	62 F
% Relative Humidity:	25
Wind Velocity, Unit:	4 mph
Wind Direction:	NW
Dew Presence (Y/N):	N
Soil Temperature, Unit:	44 F
Soil Moisture:	DRY
% Cloud Cover:	10

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	TRZAW BCER
Stage Scale Used:	BBCH
Stage Majority, Percent:	3 leaf 80
Stage Minimum, Percent:	2 20

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

Northeast Research & Extension Center

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Description	Wheat 11-19-07	Wheat 04-23-08	Wheat 05-21-08	Wheat (60#) 07-17-08	Wheat 07-17-08	Wheat 07-17-08	Wheat 07-17-08	Wheat 07-17-08	Wheat 07-17-08					
Rating Date	Injury Percent	Injury Percent	Injury Percent	Yield Bu/A@13%	Moisture Percent	Test Weight lb/bu	Plot weight lb	Plot Width feet	Plot Length feet					
Rating Data Type	3 3	159 159	187 187	244 244	244 244	244 244	244 244	244 244	244 244					
Rating Unit	3 DA-A	159 DA-A	187 DA-A	244 DA-A	244 DA-A	244 DA-A	244 DA-A	244 DA-A	244 DA-A					
Days After First/Last Applic.	45 DP-1	201 DP-1	229 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1	286 DP-1					
Trt-Eval Interval														
Plant-Eval Interval														
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage									
1	BAS 800 03H Ammonium Sulfate	0.7128 oz/a 17 lb/100 gal	6.26 g a/ha		FALLPOST FALLPOST	0.0 e	1.7 g	0.0 f	73.6 a-d	13.3 a	58.8 a	14.0 abc	5.1 a	27.0 a
2	BAS 800 03H Ammonium Sulfate	1.4256 oz/a 17 lb/100 gal	12.5 g a/ha		FALLPOST FALLPOST	0.0 e	1.7 g	0.0 f	77.2 ab	13.4 a	58.0 ab	15.4 a	5.3 a	27.0 a
3	BAS 800 03H Ammonium Sulfate	2.8512 oz/a 17 lb/100 gal	25 g a/ha		FALLPOST FALLPOST	0.0 e	1.7 g	0.0 f	74.2 abc	12.7 a	56.8 ab	15.0 ab	5.4 a	27.0 a
4	BAS 800 03H Ammonium Sulfate	11.4048 oz/a 17 lb/100 gal	100 g a/ha		FALLPOST FALLPOST	0.0 e	5.0 fg	5.0 ef	66.5 b-e	13.4 a	58.0 ab	13.4 bc	5.4 a	27.0 a
5	BAS 800 03H Ammonium Sulfate	22.8096 oz/a 17 lb/100 gal	200 g a/ha		FALLPOST FALLPOST	1.7 c	26.7 d	25.0 d	53.8 f	14.5 a	56.2 ab	11.2 de	5.6 a	27.0 a
6	BAS 800 03H NIS Ammonium Sulfate	0.7128 oz/a 0.25 % v/v 17 lb/100 gal	6.26 g a/ha		FALLPOST FALLPOST FALLPOST	0.0 e	3.3 g	3.3 ef	66.3 b-e	13.5 a	58.3 ab	13.8 abc	5.6 a	27.0 a
7	BAS 800 03H NIS Ammonium Sulfate	1.4256 oz/a 0.25 % v/v 17 lb/100 gal	12.5 g a/ha		FALLPOST FALLPOST FALLPOST	0.0 e	7.0 fg	3.3 ef	65.6 cde	13.1 a	56.3 ab	13.6 bc	5.6 a	27.0 a
8	BAS 800 03H NIS Ammonium Sulfate	2.8512 oz/a 0.25 % v/v 17 lb/100 gal	25 g a/ha		FALLPOST FALLPOST FALLPOST	0.0 e	7.0 fg	3.3 ef	62.2 ef	13.2 a	57.5 ab	11.7 de	5.1 a	27.0 a
9	BAS 800 03H NIS Ammonium Sulfate	11.4048 oz/a 0.25 % v/v 17 lb/100 gal	100 g a/ha		FALLPOST FALLPOST FALLPOST	5.0 b	21.7 de	25.0 d	57.5 ef	14.2 a	58.1 ab	10.6 e	4.9 a	27.0 a
10	BAS 800 03H NIS Ammonium Sulfate	22.8096 oz/a 0.25 % v/v 17 lb/100 gal	200 g a/ha		FALLPOST FALLPOST FALLPOST	5.0 b	65.0 c	58.3 c	41.9 g	14.7 a	55.6 ab	8.0 f	5.1 a	27.0 a
11	BAS 800 03H COC Ammonium Sulfate	0.7128 oz/a 1 % v/v 17 lb/100 gal	6.26 g a/ha		FALLPOST FALLPOST FALLPOST	0.7 de	13.3 ef	10.0 e	63.0 def	12.5 a	56.2 ab	12.4 cd	5.3 a	27.0 a
12	BAS 800 03H COC Ammonium Sulfate	1.4256 oz/a 1 % v/v 17 lb/100 gal	12.5 g a/ha		FALLPOST FALLPOST FALLPOST	1.3 cd	25.0 d	20.0 d	53.5 f	13.9 a	54.6 ab	10.7 e	5.3 a	27.0 a
13	BAS 800 03H COC Ammonium Sulfate	2.8512 oz/a 1 % v/v 17 lb/100 gal	25 g a/ha		FALLPOST FALLPOST FALLPOST	5.0 b	78.3 b	73.3 b	40.1 g	15.8 a	52.5 b	7.8 f	5.1 a	27.0 a
14	BAS 800 03H COC Ammonium Sulfate	11.4048 oz/a 1 % v/v 17 lb/100 gal	100 g a/ha		FALLPOST FALLPOST FALLPOST	5.0 b	93.0 a	94.7 a	6.4 h	14.0 a	40.2 c	1.3 g	5.3 a	27.0 a
15	BAS 800 03H COC Ammonium Sulfate	22.8096 oz/a 1 % v/v 17 lb/100 gal	200 g a/ha		FALLPOST FALLPOST FALLPOST	10.0 a	98.7 a	98.7 a	1.8 h	14.3 a	35.4 c	0.4 g	5.3 a	27.0 a
16	Nontreated Check					0.0 e	0.0 g	0.0 f	77.6 a	13.1 a	58.3 ab	14.7 ab	5.1 a	27.0 a
LSD (P=.05)						0.85	8.40	9.86	11.09	2.46	6.08	1.65	0.56	0.00
Standard Deviation						0.51	5.04	5.91	6.63	1.47	3.64	0.99	0.34	0.00
CV						24.28	17.94	22.52	12.04	10.73	6.68	9.09	6.35	0.0
Grand Mean						2.1	28.06	26.25	55.06	13.72	54.42	10.88	5.29	27.0
Replicate F						0.319	11.544	8.250	8.610	0.784	2.221	15.343	0.434	0.000
Replicate Prob(F)						0.7292	0.0002	0.0014	0.0012	0.4663	0.1272	0.0001	0.6521	1.0000
Treatment F						102.761	144.126	104.530	35.502	0.963	10.314	62.931	1.045	0.000
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.5145	0.0001	0.0001	0.4437	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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Trial ID: 08Wheat 800 Fall107Post Protocol ID: 08Wheat 800 Fall107Post
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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)I
% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)Z

Other Rate Unit

G A/HA = Grams Active Ingredient per Hectare