

2007 Winter Wheat BAS 800 UFH Tank Mix study applied in Spring 2008

Trial ID: 08 Wheat 800 Tankmixes Protocol ID: 07Wheat 800 Tankmixes  
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:	05-21-08
Time of Day:	4 pm
Application Method:	spray
Application Timing:	POST
Application Placement:	foliar
Applied By:	su
Air Temperature, Unit:	71 F
% Relative Humidity:	25
Wind Velocity, Unit:	5 mph
Wind Direction:	E
Dew Presence (Y/N):	n
Soil Moisture:	ADEQUATE
% Cloud Cover:	95

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

Northeast Research & Extension Center

2007 Winter Wheat BAS 800 UFH Tank Mix study applied in Spring 2008

Trial ID: 08 Wheat 800 Tankmixes      Protocol ID: 07Wheat 800 Tankmixes  
 Location: Concord, NE                      Study Director: Stevan Knezevic  
    Investigator: Stevan Knezevic

Description	Wheat 05-30-08	Wheat 06-04-08	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	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	Necrosis	Necrosis	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	Other Rate	Other Rate	Growth Stage								
1	2,4-D Amine	1 pt/a	560 g a/ha		Spring	0.0 f	0.0 a	78.8 a	12.9 a	58.2 a	15.6 a	5.3 a	27.0 a
2	2,4-D LV Ester	0.5 pt/a	280 g a/ha		Spring	0.0 f	0.0 a	76.2 a	12.8 a	57.7 a	15.1 a	5.3 a	27.0 a
3	Ally XP	0.1 oz/a	4.2 g a/ha		Spring	0.0 f	0.0 a	88.1 a	12.8 a	58.4 a	16.7 a	5.1 a	27.0 a
4	Curtail	2 pt/a	670 g a/ha		Spring	0.0 f	0.0 a	86.2 a	13.0 a	58.9 a	16.3 a	5.1 a	27.0 a
5	Starane	0.5 pt/a	105 g a/ha		Spring	0.0 f	0.0 a	81.1 a	13.0 a	57.8 a	16.1 a	5.3 a	27.0 a
6	BAS 800 03H	2.8512 oz/a	25 g a/ha		Spring	3.0 de	0.0 a	80.8 a	12.9 a	58.7 a	15.3 a	5.1 a	27.0 a
7	BAS 800 03H 2,4-D Amine	2.8512 oz/a 1 pt/a	25 g a/ha 560 g a/ha		Spring Spring	1.7 def	0.0 a	77.0 a	12.8 a	58.1 a	15.6 a	5.4 a	27.0 a
8	BAS 800 03H 2,4-D LV Ester	2.8512 oz/a 0.5 pt/a	25 g a/ha 280 g a/ha		Spring Spring	10.0 ab	0.0 a	74.8 a	13.0 a	59.1 a	13.9 a	5.0 a	27.0 a
9	BAS 800 03H Ally XP	2.8512 oz/a 0.1 oz/a	25 g a/ha 4.2 g a/ha		Spring Spring	1.3 ef	0.0 a	81.5 a	13.4 a	59.1 a	16.2 a	5.3 a	27.0 a
10	BAS 800 03H Curtail	2.8512 oz/a 2 pt/a	25 g a/ha 670 g a/ha		Spring Spring	2.3 de	0.0 a	72.9 a	12.8 a	58.3 a	15.3 a	5.7 a	27.0 a
11	BAS 800 03H Starane	2.8512 oz/a 0.5 pt/a	25 g a/ha 105 g a/ha		Spring Spring	2.7 de	0.0 a	82.6 a	13.0 a	58.7 a	15.0 a	4.9 a	27.0 a
12	2,4-D Amine NIS	1 pt/a 0.25 % v/v	560 g a/ha		Spring Spring	0.0 f	0.0 a	78.9 a	12.8 a	57.7 a	15.6 a	5.3 a	27.0 a
13	2,4-D LV Ester NIS	0.5 pt/a 0.25 % v/v	280 g a/ha		Spring Spring	0.0 f	0.0 a	76.9 a	12.6 a	57.3 a	15.8 a	5.6 a	27.0 a
14	Ally XP NIS	0.1 oz/a 0.25 % v/v	4.2 g a/ha		Spring Spring	0.0 f	0.0 a	77.8 a	12.5 a	56.0 a	15.3 a	5.3 a	27.0 a
15	Curtail NIS	2 pt/a 0.25 % v/v	670 g a/ha		Spring Spring	0.0 f	0.0 a	82.0 a	13.2 a	59.2 a	15.0 a	4.9 a	27.0 a
16	Starane NIS	0.5 pt/a 0.25 % v/v	105 g a/ha		Spring Spring	0.0 f	0.0 a	77.4 a	13.2 a	59.3 a	16.0 a	5.6 a	27.0 a
17	BAS 800 03H NIS	2.8512 oz/a 0.25 % v/v	25 g a/ha		Spring Spring	8.3 bc	0.0 a	76.3 a	12.4 a	57.3 a	15.0 a	5.3 a	27.0 a
18	BAS 800 03H 2,4-D Amine NIS	2.8512 oz/a 1 pt/a 0.25 % v/v	25 g a/ha 560 g a/ha		Spring Spring Spring	3.7 d	0.0 a	76.3 a	12.6 a	58.1 a	15.1 a	5.3 a	27.0 a
19	BAS 800 03H 2,4-D LV Ester NIS	2.8512 oz/a 0.5 pt/a 0.25 % v/v	25 g a/ha 280 g a/ha		Spring Spring Spring	8.0 bc	0.0 a	70.4 a	12.8 a	58.0 a	14.5 a	5.6 a	27.0 a
20	BAS 800 03H Ally XP NIS	2.8512 oz/a 1.6 oz/a 0.25 % v/v	25 g a/ha 67 g a/ha		Spring Spring Spring	7.7 c	0.0 a	76.5 a	12.8 a	57.2 a	15.1 a	5.3 a	27.0 a
21	BAS 800 03H Curtail NIS	2.8512 oz/a 2 pt/a 0.25 % v/v	25 g a/ha 670 g a/ha		Spring Spring Spring	3.3 de	0.0 a	71.8 a	12.4 a	56.7 a	14.1 a	5.3 a	27.0 a
22	BAS 800 03H Starane NIS	2.8512 oz/a 0.5 pt/a 0.25 % v/v	25 g a/ha 105 g a/ha		Spring Spring Spring	10.7 a	0.0 a	75.1 a	12.8 a	58.5 a	15.5 a	5.6 a	27.0 a
23	Nontreated Check					0.0 f	0.0 a	80.6 a	12.8 a	57.3 a	15.9 a	5.3 a	27.0 a
LSD (P=.05)						2.08	0.00	9.16	0.85	2.72	1.95	0.49	0.00
Standard Deviation						1.26	0.00	5.55	0.52	1.65	1.18	0.30	0.00
CV						46.23	0.0	7.1	4.02	2.84	7.66	5.59	0.0
Grand Mean						2.72	0.0	78.26	12.84	58.08	15.39	5.31	27.0
Replicate F						0.694	0.000	0.789	0.053	0.170	0.173	1.109	0.000
Replicate Prob(F)						0.5048	1.0000	0.4605	0.9480	0.8441	0.8420	0.3388	1.0000
Treatment F						24.579	0.000	1.759	0.638	0.794	0.980	1.487	0.000
Treatment Prob(F)						0.0001	1.0000	0.0551	0.8713	0.7155	0.5047	0.1296	1.0000

Northeast Research & Extension Center

Description	Wheat	Wheat	Wheat (60#)	Wheat	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	07-17-08
Rating Data Type	Necrosis	Necrosis	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	

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.

Additional Treatment Information

Rate Unit

PT/A = Pints Product per Acre (Metric=L/HA)|P

OZ/A = Ounces Product per Acre (Metric=ML-G/HA)|O

% V/V = Percent, Volume Product per Volume Mix Basis (Metric=same)|Z

Other Rate Unit

G A/HA = Grams Active Ingredient per Hectare