



AgriCenter International

2015 Nachurs Wheat Protocol

Trial ID: 2015 Nachurs Wheat Location: Agricenter Trial Year: 2015
 Protocol ID: 2015 Nachurs Wheat Investigator: K Bruce Kirksey
 Project ID: Study Director: Dr. K. Bruce Kirksey
 Sponsor Contact: Keith Flaniken

Reps: 4 Plots: 6 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: .9385 liters (calculated mix size .93853)

Trt No.	Treatment Name	Form Type	Rate	Appl Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Standard Practice					101	202	301	404
2	K19-S 0-0-19	L	2 gal/a	A	125.1 ml/mx	102	204	303	401
3	Rhyzo-Link 0-0-15	L	2 gal/a	A	125.1 ml/mx	103	201	302	403
4	0-0-24	L	2 gal/a	A	125.1 ml/mx	104	203	304	402

Sort Order: Treatment

General Trial Information

Study Director: Dr. K. Bruce Kirksey **Title:** Director of Research
Investigator: Dr. K. Bruce Kirksey **Title:** Director of Farm and Research

Discipline: D fertilizer

Trial Location

City: Memphis **Country:** USA United States
State/Prov.: Tennessee
Postal Code: 38120 **Climate Zone:** EPPOSE EPPO South East

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Dr. K. Bruce Kirksey **Title:** Director of Research
Organization: Agricenter International
Address: 7777 Walnut Grove Road **Phone No.:** 901-757-7754
City+State/Prov: Memphis, TN **Mobile No.:** 901-355-9124
Postal Code: 38120 **E-mail:** bkirksey@agricenter.org
Country: USA United States

Investigator: Dr. K. Bruce Kirksey **Title:** Director of Farm and Research
Organization: Agricenter International
Address: 7777 Walnut Grove Road **Phone No.:** 901-757-7754
City+State/Prov: Memphis, TN **Mobile No.:** 901-355-9124
Postal Code: 38120 **E-mail:** bkirksey@agricenter.org
Country: USA United States

Cooperator/Landowner

Cooperator: Keith Flaniken **Role:** Sales Agronomist
Organization: Nachurs
Address 1: 410 Woodbridge Road
City: Somerville **Phone No.:** 9014659043
State/Prov: TN **Fax No.:** 9014659043
Postal Code: 38068 **Mobile No.:** 9014841575
Country: USA United States **E-mail:** flanikenk@nachurs.com

Crop Description

Crop 1: TRZAW Triticum aestivum (winter) Winter wheat
Variety: Bin Run **BBCH Scale:** BCER

Planting Rate, Unit: 1500000 S/A **Planting Date:** Oct-31-2014
Depth, Unit: 1 IN **Planting Method:** DRILLE drilled
Row Spacing, Unit: 7.5 IN **Planting Equipment:** PD Plot Drilling Machine
Emergence Date: Nov-11-2014
Harvest Date: Jun-17-2015
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 30 FT
Harvest Equipment: Almaco Plot Combine
% Standard Moisture: 13

Soil Moisture: GOOD good

Site and Design

Treated Plot Width: 6 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT
Treated Plot Area: 180 FT2 **Treatments:** 4 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)

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Soil Description

Description Name: Mulch Field		Texture: SIL silt loam
% Sand: 13.6	% OM: 1.4	Soil Name: Falaya
% Silt: 61.6	pH: 6.5	Fert. Level: G good
% Clay: 24.6	CEC: 9.5	Soil Drainage: G good

Application Description

	A
Application Date:	Apr-10-2015
Application Method:	SPRAY
Application Placement:	BROFOL
Applied By:	Kirksey
Air Temperature, Unit:	67 F
% Relative Humidity:	43
Wind Velocity, Unit:	5 MPH
Wind Direction:	NNW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	68 F
Soil Moisture:	SLIWET
% Cloud Cover:	25

Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	TRZAW BCER
Stage Scale Used:	BBCH
Stage Majority, Percent:	30
Height, Unit:	12 IN

Application Equipment

	A
Appl. Equipment:	CO2 Backpack
Equipment Type:	BACCAI
Operation Pressure, Unit:	30 PSI
Nozzle Type:	FLAFAN
Nozzle Size:	8002
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	2
% Coverage:	100
Boom Length, Unit:	6 FT
Boom Height, Unit:	19 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	3 liters
Propellant:	COMCO2



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Crop Code	TRZAW	TRZAW	TRZAW
BBCH Scale	BCER	BCER	BCER
Crop Scientific Name	Triticum aesti>	Triticum aesti>	Triticum aesti>
Crop Name	Winter wheat	Winter wheat	Winter wheat
Crop Variety	VNS	VNS	VNS
Part Rated	GRAIN C	GRAIN C	GRAIN C
Rating Date	Jun-17-2015	Jun-17-2015	Jun-17-2015
Rating Type	YIELD	MOICON	YIELD
Rating Unit	lb/plot	percent	BU
Sample Size, Unit	1 PLOT		1 A
Number of Subsamples	1	1	1
Days After First/Last Applic.	68 68	68 68	68 68
Trt-Eval Interval	68 DA-A	68 DA-A	68 DA-A
Plant-Eval Interval	229 DP-1	229 DP-1	229 DP-1
Days After Emergence	218 DE-1	218 DE-1	218 DE-1
ARM Action Codes			TY1
Number of Decimals			1
Trt Treatment	Rate Appl		
No. Name	Rate Unit Code Plot	1	2
1 Standard Practice	101	12.30	14.00
	202	12.00	14.50
	301	11.10	13.90
	404	11.40	14.20
	Mean =	11.70	14.15
2 K19-S 0-0-19	2 gal/a A 102	11.60	14.30
	204	11.30	14.10
	303	11.70	14.10
	401	12.30	14.30
	Mean =	11.73	14.20
3 Rhyzo-Link 0-0-15	2 gal/a A 103	13.70	14.00
	201	15.20	14.40
	302	15.80	14.50
	403	14.40	14.30
	Mean =	14.78	14.30
4 0-0-24	2 gal/a A 104	12.30	14.10
	203	13.00	14.30
	304	12.80	13.90
	402	13.20	14.50
	Mean =	12.83	14.20

Crop Code
 TRZAW, BCER, Triticum aestivum (winter), = US
Part Rated
 GRAIN = grain
 C = Crop is Part Rated
Rating Type
 YIELD = yield
 MOICON = moisture content
Rating Unit
 lb/plot = pounds per plot
 BU = bushel

 PLOT = total plot
 A = acre
Plant-Eval Interval
 229 DP-1 = 1 TRZAW Oct-31-2014
ARM Action Codes
 TY1 = 4.84*[1]*(100-[2])/87

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Trt Treatment	Rate Appl		
No. Name	Rate Unit Code	1	2
1 Standard Practice		11.70 b	14.15 a
2 K19-S 0-0-19 2 gal/a A		11.73 b	14.20 a
3 Rhyzo-Link 0-0-15 2 gal/a A		14.78 a	14.30 a
4 0-0-24 2 gal/a A		12.83 b	14.20 a
LSD P=.05	1.063	0.332	4.91
Standard Deviation	0.665	0.207	3.07
CV	5.21	1.46	5.04
Bartlett's X2	2.731	1.9	2.739
P(Bartlett's X2)	0.435	0.593	0.434
Skewness	0.959	-0.0342	0.9466
Kurtosis	0.1329	-1.1935	0.0788
Replicate F	0.322	1.568	0.302
Replicate Prob(F)	0.8094	0.2639	0.8231
Treatment F	18.893	0.368	19.894
Treatment Prob(F)	0.0003	0.7782	0.0003

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