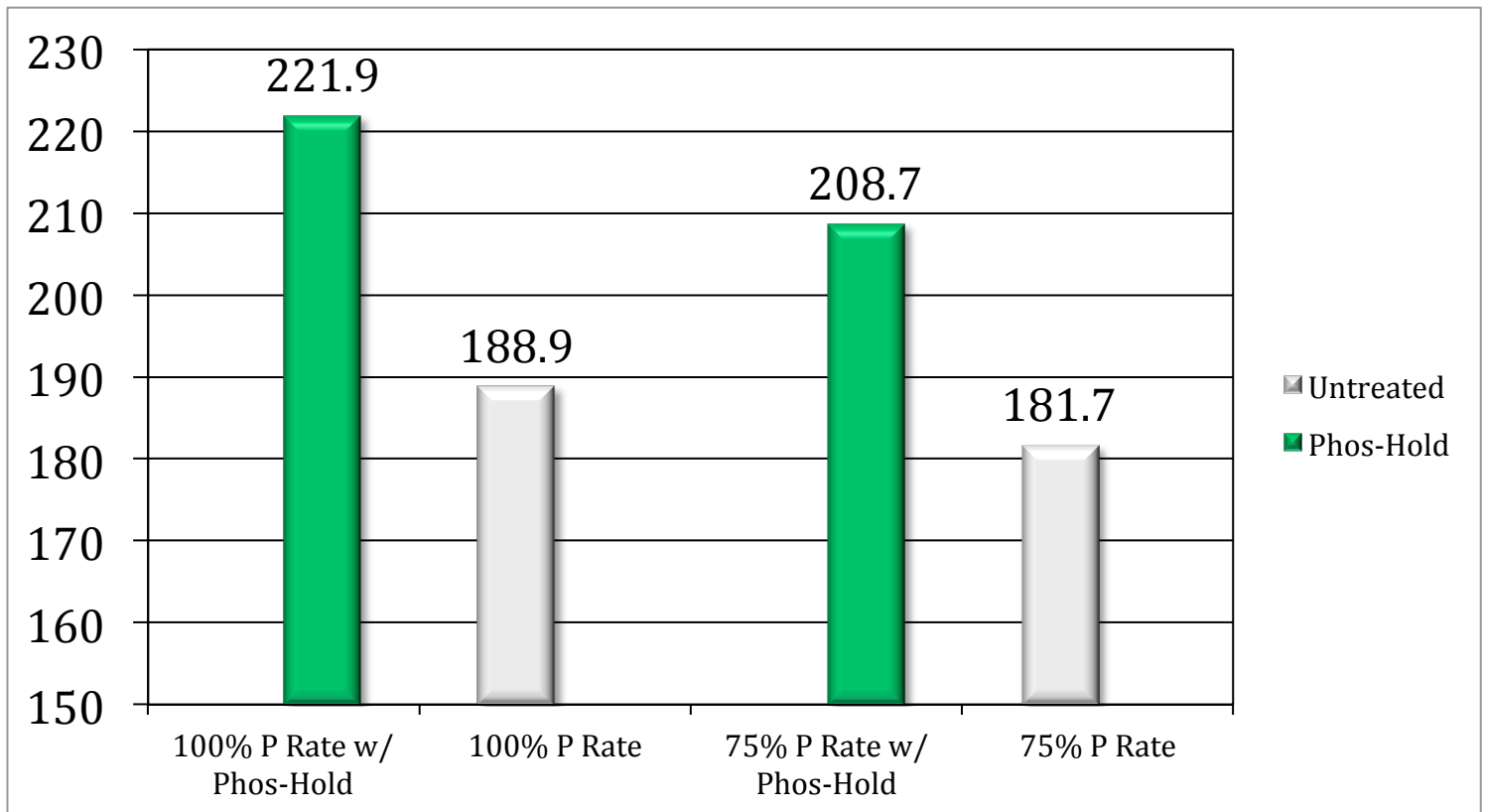


# 2014 Corn Trial: AgriCenter International



# 33

**Bushel/Acre  
Increase with  
Phos-Hold**



*\*P Source, 18-46-0 (DAP), 100 lb. and 75 lb./acre  
\*Results and data submitted by:  
Dr. Bruce Kirksey, AgriCenter International,  
Memphis TN*

## **Crop Description**

**Crop 1:** Corn

**Variety:** DK 69-31

**BBCH Scale:** BCOR

**Planting Date:** 4-22-2014

**Planting Rate, Unit:** 32000 S/A

**Planting Method:** PLANTD planted

**Depth, Unit:** 1.5 IN

**Planting Equipment:** PP Plot Planter

**Row Spacing, Unit:** 30 IN

**Harvest Date:** 9-18-2014

**Harvested Width, Unit:** 5 FT

**Harvested Length, Unit:** 30 FT

**Harvest Equipment:** Wintersteiger Delta 2 row

## **Site and Design**

**Treated Plot Width:** 10 FT **Site Type:** FIELD

**Treated Plot Length:** 50 FT

**Treated Plot Area:** 500 FT<sup>2</sup> **Treatments:** 4

**Tillage Type:** CONTIL conventional-till

**Replications:** 4

**Study Design:** RACOB

Randomized Complete Block (RCB)

## **Soil Description**

**Description Name:** Strip Field

**% Sand:** 49.36 **% OM:** 1.8 **Texture:** L loam

**% Silt:** 41.00% **pH:** 6.8 **Soil Name:** Falaya

**% Clay:** 9.70% **CEC:** 7.4 **Fert. Level:** G good

**Soil Drainage:** G good

Crop Code	ZEAMD		ZEAMD	ZEAMD	ZEAMD	ZEAMD	ZEAMD
BBCH Scale	BCOR		BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays inden>		Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>	Zea mays inden>
Crop Name	Dent corn		Dent corn	Dent corn	Dent corn	Dent corn	Dent corn
Crop Variety	Dk 69-31		Dk 69-31	Dk 69-31	Dk 69-31	Dk 69-31	Dk 69-31
Part Rated	PLANT -		PLANT -	GRAIN C	GRAIN C	GRAIN C	GRAIN C
Rating Date	5/16/2014		5/16/2014	9/18/2014	9/18/2014	9/18/2014	9/18/2014
Rating Type	STAOBJ		STAOBJ	YIELD	MOICON	WEITES	YIELD
Rating Unit	NUMBER		NUMBER	lb/plot	%	LB/BU	BU
Sample Size, Unit	6 FT		6 FT				
Number of Subsamples			1	1	1	1	1
Days After First/Last Applic.	23 23		23 23	148 148	148 148	148 148	148 148
Trt-Eval Interval	23 DA-A		23 DA-A	148 DA-A	148 DA-A	148 DA-A	148 DA-A
Plant-Eval Interval	24 DP-1		24 DP-1	149 DP-1	149 DP-1	149 DP-1	149 DP-1
ARM Action Codes							TY1
Number of Decimals							1
Trt Treatment	Rate	Rate					
No. Name	Rate	Unit	1	2	3	4	5
Phosphate							
1 Fertilizer	100lb/a		10.5a	10.8a	37.31b	17a	57.98a
Phosphate							
2 Fertilizer <25%	75lb/a		10.3a	10.3a	35.673b	16.48a	58.48a
Phosphate							
3 Fertilizer	100lb/a		11a	10a	43.793a	16.95a	58.05a
Prevent		2qt/ton					
Phosphate							
4 Fertilizer <25%	75lb/a		10a	10.8a	41.365a	17.33a	57.83a
Prevent		2qt/ton					
LSD (P=.05)			1.26	1.31	3.8518	1.819	1.432
Standard Deviation			0.79	0.82	2.4082	1.137	0.895
CV			7.53	7.86	6.09	6.71	1.54
Bartlett's X2			0.69	3.709	1.455	2.198	1.521
P(Bartlett's X2)			0.708	0.157	0.693	0.532	0.677
Skewness			-0.9417	-0.5642	-0.2908	1.108	-0.8095
Kurtosis			-0.2844	1.8323	-0.4794	1.3542	0.297
Replicate F			0.101	3.062	0.413	0.131	0.109
Replicate Prob(F)			0.9573	0.0841	0.7479	0.9393	0.9527
Treatment F			1.18	0.835	9.506	0.38	0.388
Treatment Prob(F)			0.3707	0.5077	0.0038	0.7702	0.7647

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.