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CORN: RYZUP SMARTGRASS TIME OF DAY STUDY

Trial ID: 13S-THP-CTC-09 Protocol ID: 13S-THP-CTC-09
 Location: Throckmorton Study Director:
 Project ID: VUSA2013RYZUPSMAMD68.24 Investigator: Dr. Bill Johnson
 Sponsor Contact: Valent - Eric Ott

General Trial Information

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: Mar-18-2013

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Study Director: Bill Johnson
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S

City: Lafayette **Phone No.:** 765-538-3422
State/Prov.: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DEKALB DKC61-21 **Description:** RR/LL
BBCH Scale: BCOR **Planting Date:** May-9-2013
Planting Method: SEEDED seeded **Rate, Unit:** 32000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

Soil Moisture: DRY dry **Soil Temperature, Unit:** 69 F
Emergence Date: May-18-2013

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 6 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Maintenance

No.	Date	Maintenance Treatment Name	Description	Rate	Rate Unit
1.	May-9-2013	Lexar	Pre	3	QT/A
2.	Jun-3-2013	PowerMax	Post	22	OZ/A

Comment: BULK PRE LEXAR

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Soil Description

Description Name: TPAC - Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

Application Description

	A	B	C
Application Date:	Jun-14-2013	Jun-14-2013	Jun-14-2013
Time of Day:	7 AM	11 AM	3 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	AM	NOON	PM
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	MW	MW	MW
Air Temperature, Unit:	61 F	71 F	83 F
% Relative Humidity:	89	74	54
Wind Velocity, Unit:	2.5 MPH	3.5 MPH	3.6 MPH
Wind Direction:	NW	NW	NW
Dew Presence (Y/N):	Y yes	N no	N no
Soil Temperature, Unit:	61 F	74 F	83 F
Soil Moisture:	SLIWET	SLIWET	SLIWET
% Cloud Cover:	5	7	30

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	V5	V5	V5

Application Equipment

	A	B	C
Appl. Equipment:	CO2 FORD	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO	SPTRMO
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 100 02	XR 100 02	XR 100 02
Nozzle Spacing, Unit:	20 IN	20 IN	20 IN
Nozzles/Row:	6	6	6
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	2.1 MPH	2.1 MPH	2.1 MPH
Carrier:	MEIGS	MEIGS	MEIGS
Spray Volume, Unit:	20 gal/ac	20 gal/ac	20 gal/ac
Mix Size, Unit:	2.5 liters	2.5 liters	2.5 liters
Propellant:	CO2	CO2	CO2

Date	By	Notes
Jun-24-2013		Height (cm) - Standing height Spad - Last leaf with collar
Jul-3-2013		Height (in) - Standing height Spad - Last leaf with collar
Jul-11-2013		Height (in) - Standing height Spad - Last leaf with collar

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CORN: RYZUP SMARTGRASS TIME OF DAY STUDY

Trial ID: 13S-THP-CTC-09 Protocol ID: 13S-THP-CTC-09
 Location: Throckmorton Study Director:
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Reps: 6 Plots: 10 by 30 feet
 Spray vol: 20 gal/ac Mix size: 1.8 liters (min 3.1284)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6
1	Untreated Weed-Free Check													101	205	404	505	805	904
2	RYZUP SMARTGRASS NON-IONIC SURFACTANT	40 %W/W 100 %W/W	SG SF		0.2 oz ai/a 0.25 % v/v		0.5 oz wt/a 0.25 % v/v			EAPOCR A EAPOCR A	V5 - AM V5 - AM		0.337 g/mx 4.5 ml/mx	102	305	402	602	703	902
3	RYZUP SMARTGRASS NON-IONIC SURFACTANT	40 %W/W 100 %W/W	SG SF		0.2 oz ai/a 0.25 % v/v		0.5 oz wt/a 0.25 % v/v			EAPOCR B EAPOCR B	V5 - NOON V5 - NOON		0.337 g/mx 4.5 ml/mx	103	304	502	604	804	1002
4	RYZUP SMARTGRASS NON-IONIC SURFACTANT	40 %W/W 100 %W/W	SG SF		0.2 oz ai/a 0.25 % v/v		0.5 oz wt/a 0.25 % v/v			EAPOCR C EAPOCR C	V5 - PM V5 - PM		0.337 g/mx 4.5 ml/mx	104	303	504	702	705	905
5	RYZUP SMARTGRASS	40 %W/W	SG		0.2 oz ai/a		0.5 oz wt/a			EAPOCR A	V5 - AM		0.337 g/mx	105	204	503	605	801	1001
6	RYZUP SMARTGRASS	40 %W/W	SG		0.2 oz ai/a		0.5 oz wt/a			EAPOCR B	V5 - NOON		0.337 g/mx	201	302	405	701	704	901
7	RYZUP SMARTGRASS	40 %W/W	SG		0.2 oz ai/a		0.5 oz wt/a			EAPOCR C	V5 - PM		0.337 g/mx	202	301	501	603	803	1003
8	Untreated Weed-Free Check													203	401	403	601	802	903

Sort Order: Treatment

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Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays inden>
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Dent corn
Rating Date	Jun-24-2013	Jun-24-2013	Jul-3-2013	Jul-3-2013	Jul-11-2013	Jul-11-2013	Jul-11-2013	Jul-11-2013	Oct-2-2013
Rating Type	HEIGHT	CHLCON	HEIGHT	CHLCON	CHLCON	CHLCON	HEIGHT	HEIGHT	MOICON
Rating Unit	CM		IN				IN		%
Number of Subsamples	10	1	10	1	1	1	10		1
Crop Stage Majority	V7	V7	V8	V8	V11	V11	V11		
Assessed By	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT		
Days After First/Last Applic.	10 10	10 10	19 19	19 19	27 27	27 27	27 27		110 110
Plant-Eval Interval	46 DP-1	46 DP-1	55 DP-1	55 DP-1	63 DP-1	63 DP-1	63 DP-1		146 DP-1
Days After Emergence	37 DE-1	37 DE-1	46 DE-1	46 DE-1	54 DE-1	54 DE-1	54 DE-1		137 DE-1
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
1 Untreated Weed-Free Check		101	114.50	44.40	74.80	28.50	17.50	98.00	21.50
		205	101.40	32.70	74.00	16.90	17.40	102.40	19.80
		404	101.70	38.90	72.00	18.00	20.40	92.80	21.70
		505	100.90	37.90	69.60	20.80	16.60	90.00	21.10
		805	102.20	42.60	70.00	24.80	16.10	90.80	21.70
		904	86.50	48.20	66.00	24.60	17.70	89.20	18.50
		Mean =	101.20	40.78	71.07	22.27	17.62	93.87	20.72
2 RYZUP SMARTGRASS	0.2 oz ai/a A	102	110.70	50.40	77.60	21.90	16.40	104.80	21.00
NON-IONIC SURFACTANT	0.25 % v/v A	305	106.80	34.10	72.80	20.30	17.70	95.60	20.20
		402	97.70	38.90	70.40	22.10	19.80	90.80	21.80
		602	92.00	40.90	66.40	29.50	20.00	88.00	22.20
		703	104.90	42.20	70.40	22.70	16.80	90.00	21.70
		902	98.30	41.80	67.20	22.60	19.40	89.20	21.50
		Mean =	101.73	41.38	70.80	23.18	18.35	93.07	21.40
3 RYZUP SMARTGRASS	0.2 oz ai/a B	103	114.10	42.80	76.40	22.60	15.90	105.60	18.80
NON-IONIC SURFACTANT	0.25 % v/v B	304	99.50	41.10	72.80	21.40	19.00	94.00	21.10
		502	93.00	36.80	67.60	28.00	16.70	88.40	20.90
		604	97.90	43.50	70.80	21.40	23.00	88.40	21.60
		804	102.20	58.60	71.20	25.70	18.00	92.00	21.00
		1002	96.40	42.40	66.40	42.20	17.70	87.60	21.40
		Mean =	100.52	44.20	70.87	26.88	18.38	92.67	20.80
4 RYZUP SMARTGRASS	0.2 oz ai/a C	104	115.90	43.90	78.80	19.20	19.30	105.60	21.60
NON-IONIC SURFACTANT	0.25 % v/v C	303	100.00	46.00	70.40	24.10	22.70	90.80	20.90
		504	100.50	41.30	69.60	33.10	19.00	90.00	21.00
		702	103.60	45.50	71.20	23.30	17.10	90.80	22.70
		705	104.40	43.10	70.40	23.40	17.70	91.20	22.10
		905	100.20	48.30	69.20	26.90	17.80	90.80	21.10
		Mean =	104.10	44.68	71.60	25.00	18.93	93.20	21.57
5 RYZUP SMARTGRASS	0.2 oz ai/a A	105	108.90	32.60	74.80	22.40	19.90	102.80	20.50
		204	108.30	37.90	75.20	19.70	23.40	104.00	21.30
		503	94.70	32.90	66.00	32.80	14.00	88.40	21.80
		605	100.30	44.30	68.80	19.80	14.40	88.80	20.50
		801	101.20	40.30	68.40	25.50	19.40	90.40	20.90
		1001	99.20	46.20	68.40	27.50	27.40	89.60	20.80
		Mean =	102.10	39.03	70.27	24.62	19.75	94.00	20.97

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Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMD			
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays inden>			
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Dent corn			
Rating Date	Jun-24-2013	Jun-24-2013	Jul-3-2013	Jul-3-2013	Jul-11-2013	Jul-11-2013	Oct-2-2013			
Rating Type	HEIGHT	CHLCON	HEIGHT	CHLCON	CHLCON	HEIGHT	MOICON			
Rating Unit	CM		IN			IN	%			
Number of Subsamples	10	1	10	1	1	10	1			
Crop Stage Majority	V7	V7	V8	V8	V11	V11				
Assessed By	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT				
Days After First/Last Applic.	10 10	10 10	19 19	19 19	27 27	27 27	110 110			
Plant-Eval Interval	46 DP-1	46 DP-1	55 DP-1	55 DP-1	63 DP-1	63 DP-1	146 DP-1			
Days After Emergence	37 DE-1	37 DE-1	46 DE-1	46 DE-1	54 DE-1	54 DE-1	137 DE-1			
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code	Plot	1	2	3	4	5	6	7
6 RYZUP SMARTGRASS	0.2 oz ai/a	B	201	102.60	37.30	70.80	22.10	23.50	92.40	20.10
			302	100.50	40.50	70.80	21.60	20.30	91.20	21.20
			405	104.60	32.70	74.40	19.60	19.10	93.20	21.80
			701	96.60	40.80	69.60	21.70	17.00	90.80	21.20
			704	112.80	49.50	74.00	18.60	18.70	93.60	22.60
			901	100.40	50.30	70.00	24.20	18.70	90.40	20.70
			Mean =	102.92	41.85	71.60	21.30	19.55	91.93	21.27
7 RYZUP SMARTGRASS	0.2 oz ai/a	C	202	105.60	41.00	74.40	18.90	18.00	96.40	20.50
			301	95.30	48.20	69.60	21.60	20.60	89.20	21.00
			501	94.10	37.60	65.20	24.10	25.40	86.00	21.10
			603	93.30	42.30	66.00	22.70	16.50	87.60	21.90
			803	101.60	38.90	68.80	23.80	24.70	90.80	21.70
			1003	99.60	37.40	70.00	17.60	15.30	89.60	20.80
			Mean =	98.25	40.90	69.00	21.45	20.08	89.93	21.17
8 Untreated Weed-Free Check			203	102.10	37.90	72.40	21.00	16.50	96.00	20.20
			401	93.20	41.20	63.20	28.40	15.40	86.80	21.90
			403	98.60	32.50	69.60	22.50	18.80	90.80	21.70
			601	93.20	46.00	68.00	32.30	15.20	87.60	20.90
			802	95.50	47.40	68.40	21.80	19.70	90.00	21.40
			903	100.20	44.00	70.00	23.00	15.00	89.60	22.80
			Mean =	97.13	41.50	68.60	24.83	16.77	90.13	21.48

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Crop Code				ZEAMD
BBCH Scale				BCOR
Crop Scientific Name				Zea mays inden>
Crop Name				Dent corn
Rating Date				Oct-2-2013
Rating Type				YIELD
Rating Unit				bu/ac
Number of Subsamples				1
Crop Stage Majority				
Assessed By				
Days After First/Last Applic.				110 110
Plant-Eval Interval				146 DP-1
Days After Emergence				137 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	Plot	8
1 Untreated Weed-Free Check			101	237.50
			205	235.60
			404	204.70
			505	246.70
			805	271.90
			904	270.40
			Mean =	244.47
2 RYZUP SMARTGRASS	0.2 oz ai/a A		102	224.20
NON-IONIC SURFACTANT	0.25 % v/v A		305	235.30
			402	213.70
			602	199.70
			703	233.20
			902	228.30
			Mean =	222.40
3 RYZUP SMARTGRASS	0.2 oz ai/a B		103	175.70
NON-IONIC SURFACTANT	0.25 % v/v B		304	255.90
			502	220.00
			604	230.50
			804	233.80
			1002	224.40
			Mean =	223.38
4 RYZUP SMARTGRASS	0.2 oz ai/a C		104	215.40
NON-IONIC SURFACTANT	0.25 % v/v C		303	252.90
			504	230.90
			702	229.90
			705	227.60
			905	215.20
			Mean =	228.65
5 RYZUP SMARTGRASS	0.2 oz ai/a A		105	210.30
			204	219.50
			503	213.60
			605	237.10
			801	232.20
			1001	242.20
			Mean =	225.82

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Crop Code				ZEAMD
BBCH Scale				BCOR
Crop Scientific Name				Zea mays inden>
Crop Name				Dent corn
Rating Date				Oct-2-2013
Rating Type				YIELD
Rating Unit				bu/ac
Number of Subsamples				1
Crop Stage Majority				
Assessed By				
Days After First/Last Applic.				110 110
Plant-Eval Interval				146 DP-1
Days After Emergence				137 DE-1
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	Plot	8
6 RYZUP SMARTGRASS	0.2 oz ai/a B		201	224.70
			302	231.20
			405	221.80
			701	222.90
			704	244.00
			901	255.50
			Mean =	233.35
7 RYZUP SMARTGRASS	0.2 oz ai/a C		202	264.80
			301	233.80
			501	197.30
			603	204.30
			803	247.40
			1003	220.30
			Mean =	227.98
8 Untreated Weed-Free Check			203	255.20
			401	204.90
			403	208.70
			601	272.50
			802	218.10
			903	225.30
			Mean =	230.78

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Crop Code

ZEAMX, BCOR, Zea mays, = US

ZEAMD, BCOR, Zea mays indentata, = US

Rating Type

HEIGHT = height

CHLCON = chlorophyll content

MOICON = moisture content

YIELD = yield

Rating Unit

CM = centimeter

IN = inch

% = percent

bu/ac = bushels per acre

Plant-Eval Interval

46 DP-1 = 1 ZEAMX May-9-2013

55 DP-1 = 1 ZEAMX May-9-2013

63 DP-1 = 1 ZEAMX May-9-2013

146 DP-1 = 1 ZEAMX May-9-2013

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 Location: Throckmorton Study Director:
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 Sponsor Contact: Valent - Eric Ott

Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMD	ZEAMD				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays inden>	Zea mays inden>				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Dent corn	Dent corn				
Rating Date	Jun-24-2013	Jun-24-2013	Jul-3-2013	Jul-3-2013	Jul-11-2013	Jul-11-2013	Oct-2-2013	Oct-2-2013				
Rating Type	HEIGHT	CHLCON	HEIGHT	CHLCON	CHLCON	HEIGHT	MOICON	YIELD				
Rating Unit	CM		IN			IN	%	bu/ac				
Number of Subsamples	10	1	10	1	1	10	1	1				
Crop Stage Majority	V7	V7	V8	V8	V11	V11						
Assessed By	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT	MW/BM/GT						
Days After First/Last Applic.	10 10	10 10	19 19	19 19	27 27	27 27	110 110	110 110				
Plant-Eval Interval	46 DP-1	46 DP-1	55 DP-1	55 DP-1	63 DP-1	63 DP-1	146 DP-1	146 DP-1				
Days After Emergence	37 DE-1	37 DE-1	46 DE-1	46 DE-1	54 DE-1	54 DE-1	137 DE-1	137 DE-1				
Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6	7	8
1	Untreated Weed-Free Check				101.20 a	40.78 a	71.07 a	22.27 a	17.62 a	93.87 a	20.72 a	244.47 a
2	RYZUP SMARTGRASS NON-IONIC SURFACTANT	0.2 oz ai/a 0.25 % v/v	A A		101.73 a	41.38 a	70.80 a	23.18 a	18.35 a	93.07 a	21.40 a	222.40 a
3	RYZUP SMARTGRASS NON-IONIC SURFACTANT	0.2 oz ai/a 0.25 % v/v	B B		100.52 a	44.20 a	70.87 a	26.88 a	18.38 a	92.67 a	20.80 a	223.38 a
4	RYZUP SMARTGRASS NON-IONIC SURFACTANT	0.2 oz ai/a 0.25 % v/v	C C		104.10 a	44.68 a	71.60 a	25.00 a	18.93 a	93.20 a	21.57 a	228.65 a
5	RYZUP SMARTGRASS	0.2 oz ai/a	A		102.10 a	39.03 a	70.27 a	24.62 a	19.75 a	94.00 a	20.97 a	225.82 a
6	RYZUP SMARTGRASS	0.2 oz ai/a	B		102.92 a	41.85 a	71.60 a	21.30 a	19.55 a	91.93 a	21.27 a	233.35 a
7	RYZUP SMARTGRASS	0.2 oz ai/a	C		98.25 a	40.90 a	69.00 a	21.45 a	20.08 a	89.93 a	21.17 a	227.98 a
8	Untreated Weed-Free Check				97.13 a	41.50 a	68.60 a	24.83 a	16.77 a	90.13 a	21.48 a	230.78 a
	LSD (P=.05)				5.340	5.651	2.990	5.451	3.581	4.062	0.922	23.742
	Standard Deviation				4.529	4.793	2.536	4.624	3.038	3.446	0.782	20.138
	CV				4.48	11.47	3.6	19.52	16.26	3.73	3.7	8.77
	Bartlett's X2				4.452	6.175	2.363	11.369	14.464	13.854	6.542	7.659
	P(Bartlett's X2)				0.726	0.519	0.937	0.123	0.044*	0.054	0.478	0.364
	Replicate F				8.390	3.740	7.295	1.053	0.449	12.322	2.491	1.537
	Replicate Prob(F)				0.0001	0.0081	0.0001	0.4029	0.8109	0.0001	0.0496	0.2036
	Treatment F				1.579	0.889	1.183	1.086	0.829	1.248	0.982	0.729
	Treatment Prob(F)				0.1743	0.5252	0.3376	0.3930	0.5704	0.3038	0.4601	0.6488

Crop Code
 ZEAMX, BCOR, Zea mays, = US
 ZEAMD, BCOR, Zea mays indentata, = US
Rating Type
 HEIGHT = height
 CHLCON = chlorophyll content
 MOICON = moisture content
 YIELD = yield
Rating Unit
 CM = centimeter
 IN = inch
 % = percent
 bu/ac = bushels per acre
Plant-Eval Interval
 46 DP-1 = 1 ZEAMX May-9-2013
 55 DP-1 = 1 ZEAMX May-9-2013
 63 DP-1 = 1 ZEAMX May-9-2013
 146 DP-1 = 1 ZEAMX May-9-2013

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.