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FIELD CORN RESPONSE TO ROUNDUP + SANDEA
IN A HIGH YIELD ENVIRONMENT

Trial ID: CN-03-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

Reps: 4 Plots: 5 by 25 feet
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .65176)

Trt No.	Treatment Name	Form Form		Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Rep			
		Conc	Type						1	2	3	4
1	NO HERBICIDE 10 DAP - V1								101	209	303	406
2	NO HERBICIDE 17 DAP - V3								102	205	306	404
3	NO HERBICIDE 23 DAP - V4-V5								103	208	304	410
4	ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 4 75	SL L WG	32.0 48.0 0.67	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.5018 g/mx	104	211	310	405
5	ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 4 75	SL L WG	32.0 48.0 0.67	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.5018 g/mx	105	212	305	409
6	ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 4 75	SL L WG	32.0 48.0 0.67	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.5018 g/mx	106	204	309	407
7	ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 4 75	SL L WG	32.0 48.0 1.33	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.996 g/mx	107	203	311	402
8	ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 4 75	SL L WG	32.0 48.0 1.33	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.996 g/mx	108	202	307	403
9	ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 4 75	SL L WG	32.0 48.0 1.33	oz/a oz/a oz/a	POST POST POST	A A A	25.0 ml/mx 37.5 ml/mx 0.996 g/mx	109	206	312	401
10	ROUNDUP P-MAX ATRAZINE 10 DAP - V1	5.5 4	SL L	32.0 48.0	oz/a oz/a	POST POST	A A	25.0 ml/mx 37.5 ml/mx	110	201	302	412
11	ROUNDUP P-MAX ATRAZINE 17 DAP - V3	5.5 4	SL L	32.0 48.0	oz/a oz/a	POST POST	A A	25.0 ml/mx 37.5 ml/mx	111	207	308	411
12	ROUNDUP P-MAX ATRAZINE 23 DAP - V4-V5	5.5 4	SL L	32.0 48.0	oz/a oz/a	POST POST	A A	25.0 ml/mx 37.5 ml/mx	112	210	301	408

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

ROUNDUP (24 OZ/A) + ATRAZINE (2 QT/A) + DUAL MAGNUM (16 OZ/A) - PRE

CORN EMERGED ON MARCH 25, 2015

APPROXIMATE GDD FROM EMERGENCE:
10 DAP = 50 GDD = V1
17 DAP = 178 GDD = V3
23 DAP = 313 GDD = V4-V5

CORN YIELD WAS OBTAINED BY HAND-HARVESTING A 10 FT SECTION OF CORN IN STAKED ROW (30" SPACING)
G/EAR ADJUSTED TO 15.5% MOISTURE
YIELDS ADJUSTED TO 15.5% MOISTURE.
YIELD DATA NOT OBTAINED FROM PLOTS 211, 2012, AND 405 DUE TO LODGED CORN.

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SUMMARY:

- 1) FOR PLANT HEIGHTS COLLECTED ON MAY 1, THERE WAS NO INTERACTION BETWEEN HERBICIDE TREATMENT AND TIMING. NEITHER TIMING NOR TREATMENT HAD AN EFFECT ON PLANT HEIGHT.
- 2) FOR CORN YIELD, THERE WAS NO INTERACTION BETWEEN HERBICIDE TREATMENT AND TIMING. TIMING HAD NO EFFECT ON YIELD. SANDEA @ 1.33 OZ/A CAUSED A SIGNIFICANT YIELD REDUCTION WHEN COMPARED TO THE NTC AND OTHER TREATMENTS (4.4 TO 5.6% YIELD REDUCTIONS).
- 3) FOR CORN EAR NUMBER/A, THERE WAS NO INTERACTION BETWEEN HERBICIDE TREATMENT AND TIMING. HERBICIDE TREATMENT HAD NO EFFECT ON EAR NUMBER. CORN EAR NUMBERS WERE HIGHER WHEN TREATMENTS WERE APPLIED AT 17 DAP - V3 STAGE.
- 4) FOR CORN EAR WEIGHT, THERE WAS NO INTERACTION BETWEEN HERBICIDE TREATMENT AND TIMING. TIMING HAD NO EFFECT ON CORN EAR WEIGHTS. SANDEA @ 1.33 OZ/A CAUSED A SIGNIFICANT REDUCTION IN EAR WEIGHT WHEN COMPARED TO THE NTC AND ROUNDUP WM + ATRAZINE TREATMENTS (2.8 TO 4.3% WEIGHT REDUCTIONS)

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FIELD CORN RESPONSE TO ROUNDUP + SANDEA
IN A HIGH YIELD ENVIRONMENT

Trial ID: CN-03-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: RANDY DOWDY/BEN SHIRLEY **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. _____ **2.** _____

Crop 1: ZEAMA **FIELD CORN** **Variety:** PIONEER 1197 **Planting Date:** Mar-20-15
Planting Method: JOHN DEERE AIR **Rate:** 40000 S/A **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 5 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** FACTOR
Trial Initiation Comments: _____

Previous: Crops **Pesticides** **Year**
1. SOYBEAN 2014 _____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
			Conc	Unit	Type	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: LOAMY SAND **% OM:** _____ **% Sand:** _____ **% Silt:** _____ **% Clay:** _____
pH: _____ **CEC:** _____ **Soil Name:** TIFTON **Fertility Level:** EXCELLENT

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1.	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Mar-30-15	Apr-6-15	Apr-12-15	_____	_____	_____
Time of Day:	7:31 AM	7:50 AM	8:08 AM	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	BROADCAST	_____	_____	_____
Application Timing:	10 DAP-V1	17 DAP-V3	23DAPV4-5	_____	_____	_____
Applic. Placement:	FOLIAGE	FOLIAGE	FOLIAGE	_____	_____	_____
Air Temp., Unit:	49 F	63.7 F	69.6 F	_____	_____	_____
% Relative Humidity:	75	86	89	_____	_____	_____
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH	_____	_____	_____
Dew Presence (Y/N):	N	Y	Y	_____	_____	_____
Water Hardness:	---	---	---	_____	_____	_____
Soil Temp., Unit:	59 F	66.7 F	70.7 F	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	OPTIMUM	_____	_____	_____
% Cloud Cover:	20	100	100	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: ZEAMA	_____	4 LF	5-6 LF	_____	_____	_____
Stage Scale:	V1	V3	V4-V5	_____	_____	_____
Height, Unit:	2 IN	4 IN	10 IN	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: _____	_____	_____	_____	_____	_____	_____
	Stage Scale: _____	_____	_____	_____	_____	_____	_____
	Density, Unit: _____	_____	_____	_____	_____	_____	_____

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK SAME	_____	_____	_____	_____	_____	_____
Operating Pressure:	32	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	18	IN	_____	_____	_____	_____	_____
Nozzles/Row:	_____	_____	_____	_____	_____	_____	_____
Band Width, Unit:	_____	_____	_____	_____	_____	_____	_____
Boom Length, Unit:	54	IN	_____	_____	_____	_____	_____
Boom Height, Unit:	20	IN	_____	_____	_____	_____	_____
Ground Speed, Unit:	3.5	MPH	_____	_____	_____	_____	_____
Incorporation Equip.:	_____	_____	_____	_____	_____	_____	_____
Hours to Incorp.:	_____	_____	_____	_____	_____	_____	_____
Incorp. Depth, Unit:	_____	_____	_____	_____	_____	_____	_____
Carrier:	WATER	_____	_____	_____	_____	_____	_____
Spray Volume, Unit:	15	GPA	_____	_____	_____	_____	_____
Spray pH:	_____	_____	_____	_____	_____	_____	_____
Propellant:	CO2	_____	_____	_____	_____	_____	_____
Tank Mix (Y/N):	_____	_____	_____	_____	_____	_____	_____

Trt No	Treatment Application Comment
_____	_____

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IN A HIGH YIELD ENVIRONMENT
Trial ID: CN-03-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

Weed Code					----- ZEAMA PLANT - STUNTING PERCENT Apr-12-15	----- ZEAMA PLANT - STUNTING PERCENT May-1-15	----- ZEAMA PLANT - HGT-1 CM May-1-15	----- ZEAMA PLANT - HGT-2 CM May-1-15	----- ZEAMA PLANT - HGT-3 CM May-1-15	----- ZEAMA PLANT - HGT-4 CM May-1-15	----- ZEAMA PLANT - HGT-5 CM May-1-15
Crop Code											
Part Rated											
Rating Data Type											
Rating Unit											
Rating Date											
PRM Data Type											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code				
								1	2	3	4
TABLE OF R MEANS											
Replicate 1											
								0.4	2.1	110.6	111.1
Replicate 2											
								2.5	2.9	113.8	115.8
Replicate 3											
								2.1	1.3	119.2	119.8
Replicate 4											
								3.8	2.1	107.8	113.3
TABLE OF A (HERBICIDE) MEANS											
1 NO HERBICIDE											
								0.0 b	0.0 b	113.5 a	115.8 a
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			1.3 b	3.3 a	111.9 a	112.3 a
2	ATRAZINE	4 L		48.0 oz/a	POST A						
2	SANDEA	75 WG		0.67 oz/a	POST A						
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			7.1 a	4.6 a	111.8 a	115.7 a
3	ATRAZINE	4 L		48.0 oz/a	POST A						
3	SANDEA	75 WG		1.33 oz/a	POST A						
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			0.4 b	0.4 b	114.3 a	116.3 a
4	ATRAZINE	4 L		48.0 oz/a	POST A						
LSD P=.10								2.70	1.97	6.24	6.30
Standard Deviation								3.61	2.64	8.34	8.42
CV								164.96	126.49	7.39	7.32
TABLE OF B (TIMING) MEANS											
1 10 DAP - V1											
								1.9 b	2.5 a	111.9 a	112.3 a
2 17 DAP - V3											
								4.7 a	3.1 a	113.4 a	115.8 a
3 23 DAP - V4-V5											
								0.0 c	0.6 a	113.3 a	116.9 a
LSD P=.10								1.83	2.36	4.10	5.01
Standard Deviation								2.67	3.44	5.97	7.29
CV								121.96	164.92	5.29	6.34
TABLE OF A (HERBICIDE) B (TIMING) MEANS											
1 NO HERBICIDE											
1 10 DAP - V1											
								0.0 d	0.0 b	114.3 a	115.3 a
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			0.0 d	1.3 b	110.8 a	111.8 a
2	ATRAZINE	4 L		48.0 oz/a	POST A						
2	SANDEA	75 WG		0.67 oz/a	POST A						
1 10 DAP - V1											
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			7.5 b	7.5 a	111.5 a	113.8 a
3	ATRAZINE	4 L		48.0 oz/a	POST A						
3	SANDEA	75 WG		1.33 oz/a	POST A						
1 10 DAP - V1											
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			0.0 d	1.3 b	111.0 a	108.5 a
4	ATRAZINE	4 L		48.0 oz/a	POST A						
1 10 DAP - V1											
1 NO HERBICIDE											
2 17 DAP - V3											
								0.0 d	0.0 b	112.0 a	111.0 a
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			3.8 c	6.3 a	115.5 a	112.8 a
2	ATRAZINE	4 L		48.0 oz/a	POST A						
2	SANDEA	75 WG		0.67 oz/a	POST A						
2 17 DAP - V3											
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			13.8 a	6.3 a	110.5 a	116.3 a
3	ATRAZINE	4 L		48.0 oz/a	POST A						
3	SANDEA	75 WG		1.33 oz/a	POST A						
2 17 DAP - V3											
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A			1.3 cd	0.0 b	115.8 a	123.0 a
4	ATRAZINE	4 L		48.0 oz/a	POST A						
2 17 DAP - V3											

Means followed by same letter do not significantly differ (P=.10, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date							----- ZEAMA PLANT - STUNTING PERCENT Apr-12-15	----- ZEAMA PLANT - STUNTING PERCENT May-1-15	----- ZEAMA PLANT - HGT-1 CM May-1-15	----- ZEAMA PLANT - HGT-2 CM May-1-15	----- ZEAMA PLANT - HGT-3 CM May-1-15	----- ZEAMA PLANT - HGT-4 CM May-1-15	----- ZEAMA PLANT - HGT-5 CM May-1-15
PRM Data Type # Subsamples, Dec.													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	1	2	3	4	5	6	7
1	NO HERBICIDE						0.0 d	0.0 b	114.3 a	121.0 a	123.5 a	117.0 a	117.8 a
3	23 DAP - V4-V5												
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		0.0 d	2.5 b	109.5 a	112.5 a	114.8 a	120.8 a	117.5 a
2	ATRAZINE	4 L		48.0 oz/a	POST A								
2	SANDEA	75 WG		0.67 oz/a	POST A								
3	23 DAP - V4-V5												
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		0.0 d	0.0 b	113.3 a	117.0 a	117.8 a	111.8 a	112.8 a
3	ATRAZINE	4 L		48.0 oz/a	POST A								
3	SANDEA	75 WG		1.33 oz/a	POST A								
3	23 DAP - V4-V5												
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		0.0 d	0.0 b	116.0 a	117.3 a	118.8 a	118.0 a	122.5 a
4	ATRAZINE	4 L		48.0 oz/a	POST A								
3	23 DAP - V4-V5												
LSD P=.10							2.93	3.23	8.05	8.31	6.24	7.85	6.72
Standard Deviation							2.39	2.64	6.56	6.78	5.09	6.40	5.48
CV							109.42	126.49	5.82	5.89	4.35	5.58	4.77

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Weed Code							-----	-----	-----	-----	-----	-----		
Crop Code							ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA		
Part Rated							PLANT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -		
Rating Data Type							AVG HGT	YIELD	MOISTURE	YIELD	EARS	EARS		
Rating Unit							CM	LBS/10FT	PERCENT	BU/A	#/10FT	#/A		
Rating Date							May-1-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15		
PRM Data Type							T1			TY2		T3		
# Subsamples, Dec.							- 0	- 2	- 1	- 0	- 0	- 0	TY4	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	8	9	10	11	12	13	14
TABLE OF R MEANS														
Replicate 1														
								112	14.08	26.4	305	23	40511	21367
Replicate 2														
								115	14.27	24.7	317	23	40414	22166
Replicate 3														
								120	14.51	25.5	318	23	40220	22294
Replicate 4														
								112	14.88	25.9	325	24	41237	22736
TABLE OF A (HERBICIDE) MEANS														
1 NO HERBICIDE														
								116 a	14.53 a	25.6 a	319 a	23 a	40511 a	22305 a
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								114 a	14.59 a	25.8 a	319 a	24 a	41576 a	22316 a
2 ATRAZINE 4 L 48.0 oz/a POST A														
2 SANDEA 75 WG 0.67 oz/a POST A														
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								113 a	13.90 b	25.6 a	305 b	23 a	39785 a	21332 b
3 ATRAZINE 4 L 48.0 oz/a POST A														
3 SANDEA 75 WG 1.33 oz/a POST A														
4 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								117 a	14.73 a	25.6 a	323 a	23 a	40511 a	22610 a
4 ATRAZINE 4 L 48.0 oz/a POST A														
LSD P=.10														
								5.0	0.560	0.33	11.7	0.7	1235.2	822.3
Standard Deviation														
								6.6	0.748	0.44	15.7	0.9	1650.6	1098.9
CV														
								5.8	5.181	1.73	5.0	4.1	4.1	5.0
TABLE OF B (TIMING) MEANS														
1 10 DAP - V1														
								113 a	14.37 a	25.7 a	315 a	23 b	40293 b	22022 a
2 17 DAP - V3														
								115 a	14.52 a	25.6 a	318 a	24 a	41527 a	22265 a
3 23 DAP - V4-V5														
								117 a	14.42 a	25.6 a	316 a	23 b	39966 b	22136 a
LSD P=.10														
								2.7	0.282	0.15	6.3	0.7	1206.7	437.8
Standard Deviation														
								3.9	0.411	0.22	9.1	1.0	1756.5	637.3
CV														
								3.4	2.847	0.86	2.9	4.3	4.3	2.9
TABLE OF A (HERBICIDE) B (TIMING) MEANS														
1 NO HERBICIDE														
1 10 DAP - V1														
								115 a	14.09 a	25.6 a	309 a	23 a	39640 a	21631 a
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								113 a	14.73 a	26.0 a	321 a	24 a	41818 a	22480 a
2 ATRAZINE 4 L 48.0 oz/a POST A														
2 SANDEA 75 WG 0.67 oz/a POST A														
1 10 DAP - V1														
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								112 a	13.90 a	25.6 a	305 a	23 a	39640 a	21335 a
3 ATRAZINE 4 L 48.0 oz/a POST A														
3 SANDEA 75 WG 1.33 oz/a POST A														
1 10 DAP - V1														
4 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								113 a	14.75 a	25.6 a	323 a	23 a	40075 a	22641 a
4 ATRAZINE 4 L 48.0 oz/a POST A														
1 10 DAP - V1														
1 NO HERBICIDE														
2 17 DAP - V3														
								113 a	15.03 a	25.6 a	330 a	24 a	42253 a	23066 a
2 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								115 a	15.02 a	25.9 a	328 a	24 a	42398 a	22934 a
2 ATRAZINE 4 L 48.0 oz/a POST A														
2 SANDEA 75 WG 0.67 oz/a POST A														
2 17 DAP - V3														
3 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								112 a	13.78 a	25.6 a	302 a	23 a	40511 a	21147 a
3 ATRAZINE 4 L 48.0 oz/a POST A														
3 SANDEA 75 WG 1.33 oz/a POST A														
2 17 DAP - V3														
4 ROUNDUP P-MAX 5.5 SL 32.0 oz/a POST A														
								119 a	14.28 a	25.6 a	313 a	24 a	40946 a	21912 a
4 ATRAZINE 4 L 48.0 oz/a POST A														
2 17 DAP - V3														

University of Georgia

Weed Code	-----		-----		-----		-----		-----					
Crop Code	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA	ZEAMA				
Part Rated	PLANT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -	PLOT -				
Rating Data Type	AVG HGT	YIELD	MOISTURE	YIELD	EARS	EARS	EARS	EARS	YIELD	YIELD				
Rating Unit	CM	LBS/10FT	PERCENT	BU/A	#/10FT	#/A	#/A	#/A	LBS/A	LBS/A				
Rating Date	May-1-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15	Jul-20-15				
PRM Data Type	T1			TY2		T3		TY4						
# Subsamples, Dec.	- 0	- 2	- 1	- 0	- 0	- 0	- 0	- 0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	8	9	10	11	12	13	14
1	NO HERBICIDE							119 a	14.48 a	25.6 a	317 a	23 a	39640 a	22219 a
3	23 DAP - V4-V5													
2	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST	A		115 a	14.03 a	25.6 a	308 a	23 a	40511 a	21534 a
2	ATRAZINE	4 L		48.0 oz/a	POST	A								
2	SANDEA	75 WG		0.67 oz/a	POST	A								
3	23 DAP - V4-V5													
3	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST	A		115 a	14.01 a	25.6 a	307 a	23 a	39204 a	21514 a
3	ATRAZINE	4 L		48.0 oz/a	POST	A								
3	SANDEA	75 WG		1.33 oz/a	POST	A								
3	23 DAP - V4-V5													
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST	A		119 a	15.16 a	25.6 a	333 a	23 a	40511 a	23278 a
4	ATRAZINE	4 L		48.0 oz/a	POST	A								
3	23 DAP - V4-V5													
LSD P=.10								3.5	0.909	0.30	20.2	1.7	2919.3	1413.3
Standard Deviation								2.8	0.733	0.24	16.3	1.4	2355.0	1140.1
CV								2.5	5.078	0.95	5.1	5.8	5.8	5.1

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Weed Code								-----
Crop Code								ZEAMA
Part Rated								EAR -
Rating Data Type								WEIGHT
Rating Unit								G/EAR
Rating Date								Jul-20-15
PRM Data Type								T5
# Subsamples, Dec.								- 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	15
TABLE OF R MEANS								
Replicate 1								240
Replicate 2								249
Replicate 3								252
Replicate 4								251
TABLE OF A (HERBICIDE) MEANS								
1 NO HERBICIDE								250 ab
2	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	244 bc
2	ATRAZINE	4	L	48.0	oz/a	POST	A	
2	SANDEA	75	WG	0.67	oz/a	POST	A	
3	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	243 c
3	ATRAZINE	4	L	48.0	oz/a	POST	A	
3	SANDEA	75	WG	1.33	oz/a	POST	A	
4	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	254 a
4	ATRAZINE	4	L	48.0	oz/a	POST	A	
LSD P=.10								6.3
Standard Deviation								8.4
CV								3.4
TABLE OF B (TIMING) MEANS								
1 10 DAP - V1								249 a
2 17 DAP - V3								244 a
3 23 DAP - V4-V5								251 a
LSD P=.10								8.5
Standard Deviation								12.3
CV								5.0
TABLE OF A (HERBICIDE) B (TIMING) MEANS								
1 NO HERBICIDE								248 a
1 10 DAP - V1								
2	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	245 a
2	ATRAZINE	4	L	48.0	oz/a	POST	A	
2	SANDEA	75	WG	0.67	oz/a	POST	A	
1	10 DAP - V1							
3	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	245 a
3	ATRAZINE	4	L	48.0	oz/a	POST	A	
3	SANDEA	75	WG	1.33	oz/a	POST	A	
1	10 DAP - V1							
4	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	257 a
4	ATRAZINE	4	L	48.0	oz/a	POST	A	
1	10 DAP - V1							
1 NO HERBICIDE								248 a
2 17 DAP - V3								
2	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	246 a
2	ATRAZINE	4	L	48.0	oz/a	POST	A	
2	SANDEA	75	WG	0.67	oz/a	POST	A	
2	17 DAP - V3							
3	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	237 a
3	ATRAZINE	4	L	48.0	oz/a	POST	A	
3	SANDEA	75	WG	1.33	oz/a	POST	A	
2	17 DAP - V3							
4	ROUNDUP P-MAX	5.5	SL	32.0	oz/a	POST	A	243 a
4	ATRAZINE	4	L	48.0	oz/a	POST	A	
2	17 DAP - V3							

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COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT STUNTING PERCENT Apr-12-15 (Data Column 1)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	1145.312500					
R	3	68.229167	22.743056	3.970	0.0247		
A	3	393.229167	131.076389	10.067	0.0031	2.7	
RA	9	117.187500	13.020833				
B	2	178.125000	89.062500	12.512	0.0072	1.8	
RB	6	42.708333	7.118056				
AB	6	242.708333	40.451389	7.061	0.0005	2.9	
RAB	18	103.125000	5.729167				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT STUNTING PERCENT May-1-15 (Data Column 2)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	641.666667					
R	3	16.666667	5.555556	0.800	0.5099		
A	3	179.166667	59.722222	8.600	0.0052	2.0	
RA	9	62.500000	6.944444				
B	2	54.166667	27.083333	2.294	0.1820	2.4	
RB	6	70.833333	11.805556				
AB	6	133.333333	22.222222	3.200	0.0256	3.2	
RAB	18	125.000000	6.944444				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-1 CM May-1-15 (Data Column 3)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	2695.979167					
R	3	854.062500	284.687500	6.608	0.0033		
A	3	53.562500	17.854167	0.257	0.8549	6.2	
RA	9	626.354167	69.594907				
B	2	23.291667	11.645833	0.327	0.7334	4.1	
RB	6	213.875000	35.645833				
AB	6	149.375000	24.895833	0.578	0.7431	8.0	
RAB	18	775.458333	43.081019				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-2 CM May-1-15 (Data Column 4)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	3050.000000					
R	3	496.500000	165.500000	3.602	0.0338		
A	3	116.166667	38.722222	0.546	0.6630	6.3	
RA	9	638.000000	70.888889				
B	2	184.625000	92.312500	1.737	0.2540	5.0	
RB	6	318.875000	53.145833				
AB	6	468.708333	78.118056	1.700	0.1784	8.3	
RAB	18	827.125000	45.951389				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-3 CM May-1-15 (Data Column 5)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	2156.666667					
R	3	361.500000	120.500000	4.657	0.0141		
A	3	174.333333	58.111111	0.845	0.5030	6.2	
RA	9	618.833333	68.759259				
B	2	87.791667	43.895833	2.152	0.1974	3.1	
RB	6	122.375000	20.395833				
AB	6	326.041667	54.340278	2.100	0.1040	6.2	
RAB	18	465.791667	25.877315				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-4 CM May-1-15 (Data Column 6)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	2593.250000					
R	3	668.416667	222.805556	5.439	0.0077		
A	3	216.750000	72.250000	1.011	0.4321	6.3	
RA	9	643.416667	71.490741				
B	2	123.500000	61.750000	2.933	0.1293	3.2	
RB	6	126.333333	21.055556				
AB	6	77.500000	12.916667	0.315	0.9206	7.8	
RAB	18	737.333333	40.962963				

COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT HGT-5 CM May-1-15 (Data Column 7)							
Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)	
Total	47	2650.479167					
R	3	624.729167	208.243056	6.937	0.0027		
A	3	454.562500	151.520833	2.483	0.1271	5.8	
RA	9	549.187500	61.020833				
B	2	205.041667	102.520833	2.471	0.1649	4.4	
RB	6	248.958333	41.493056				
AB	6	27.625000	4.604167	0.153	0.9859	6.7	
RAB	18	540.375000	30.020833				

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COMPLETE FACTORIAL AOV For ----- ZEAMA PLANT AVG HGT CM May-1-15 T1 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	47	1454.396667				
R	3	515.456667	171.818889	21.681	0.0001	
A	3	126.056667	42.018889	0.952	0.4559	5
RA	9	397.203333	44.133704			
B	2	94.186667	47.093333	3.131	0.1172	3
RB	6	90.253333	15.042222			
AB	6	88.593333	14.765556	1.863	0.1430	3
RAB	18	142.646667	7.924815			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD LBS/10FT Jul-20-15 2 (Data Column 9) Missing values in column 9 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	28.877633				
R	3	4.307274	1.435758	2.672	0.0850	
A	3	4.917378	1.639126	2.930	0.0921	0.56
RA	9	5.034184	0.559354			
B	2	0.204873	0.102436	0.606	0.5756	0.28
RB	6	1.013507	0.168918			
AB	6	5.339340	0.889890	1.656	0.2001	0.91
RAB	15	8.061076	0.537405			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT MOISTURE PERCENT Jul-20-15 1 (Data Column 10) Missing values in column 10 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	23.534907				
R	3	19.571250	6.523750	110.885	0.0001	
A	3	0.613611	0.204537	1.044	0.4192	0.3
RA	9	1.763750	0.195972			
B	2	0.102407	0.051204	1.044	0.4081	0.2
RB	6	0.294167	0.049028			
AB	6	0.307222	0.051204	0.870	0.5387	0.3
RAB	15	0.882500	0.058833			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT YIELD BU/A Jul-20-15 TY2 0 (Data Column 11) Missing values in column 11 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	13868.379553				
R	3	2393.293619	797.764540	3.007	0.0634	
A	3	2283.212301	761.070767	3.088	0.0825	12
RA	9	2217.813373	246.423708			
B	2	96.480272	48.240136	0.582	0.5875	6
RB	6	497.293577	82.882263			
AB	6	2401.131203	400.188534	1.509	0.2416	20
RAB	15	3979.155208	265.277014			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT EARS #/10FT Jul-20-15 0 (Data Column 12) Missing values in column 12 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	60.497685				
R	3	2.340278	0.780093	0.427	0.7365	
A	3	6.451389	2.150463	2.396	0.1356	1
RA	9	8.076389	0.897377			
B	2	7.143519	3.571759	3.515	0.0976	1
RB	6	6.097222	1.016204			
AB	6	2.986111	0.497685	0.272	0.9413	2
RAB	15	27.402778	1.826852			

COMPLETE FACTORIAL AOV For ----- ZEAMA PLOT EARS #/A Jul-20-15 T3 0 (Data Column 13) Missing values in column 13 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	183668416.800000				
R	3	7104984.480000	2368328.160000	0.427	0.7365	
A	3	19586144.160000	6528714.720000	2.396	0.1356	1235
RA	9	24519575.520000	2724397.280000			
B	2	21687420.480000	10843710.240000	3.515	0.0976	1207
RB	6	18510909.120000	3085151.520000			
AB	6	9065707.200000	1510951.200000	0.272	0.9413	2919
RAB	15	83193675.840000	5546245.056000			

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COMPLETE FACTORIAL AOV For ---- ZEAMA PLOT YIELD LBS/A Jul-20-15 TY4 0 (Data Column 14) Missing values in column 14 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	67955064.596308				
R	3	11727145.869060	3909048.623020	3.007	0.0634	
A	3	11187740.842030	3729246.947343	3.088	0.0825	822
RA	9	10867280.648115	1207475.627568			
B	2	472752.683399	236376.341699	0.582	0.5875	438
RB	6	2436740.097105	406123.349518			
AB	6	11765552.500202	1960925.416700	1.509	0.2416	1413
RAB	15	19497851.956398	1299856.797093			

COMPLETE FACTORIAL AOV For ----- ZEAMA EAR WEIGHT G/EAR Jul-20-15 T5 0 (Data Column 15) Missing values in column 15 results in unbalanced data, Least Squares Analysis is preferred

Source	DF	Sum of Squares	Mean Square	F	Prob(F)	LSD (.10)
Total	44	6941.577414				
R	3	1089.980414	363.326805	2.346	0.1139	
A	3	872.147411	290.715804	4.165	0.0417	6
RA	9	628.259650	69.806628			
B	2	512.887460	256.443730	1.692	0.2613	8
RB	6	909.205491	151.534248			
AB	6	606.391375	101.065229	0.653	0.6880	15
RAB	15	2322.705614	154.847041			

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

$$T1 = ([3]+[4]+[5]+[6]+[7])/5$$

$$TY2 = 24.89143*[9]*(100-@MVAVGREP([10]))/84.5$$

$$T3 = [12]*1742.4$$

$$TY4 = 1742.4*[9]*(100-@MVAVGREP([10]))/84.5$$

$$T5 = ([14]/[13])*454$$

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FIELD CORN RESPONSE TO ROUNDUP + SANDEA IN A HIGH YIELD ENVIRONMENT														
Trial ID: CN-03-15		Study Dir.: RANDY DOWDY/BEN SHIRLEY												
Location: BROOKS COUNTY		Investigator: Eric P. Prostko												
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	PRM Data Type	# Subsamples, Dec.	ZEAMA PLANT - STUNTING PERCENT Apr-12-15	ZEAMA PLANT - STUNTING PERCENT May-1-15	ZEAMA PLANT - HGT-1 CM May-1-15	ZEAMA PLANT - HGT-2 CM May-1-15	ZEAMA PLANT - HGT-3 CM May-1-15	ZEAMA PLANT - HGT-4 CM May-1-15	ZEAMA PLANT - HGT-5 CM May-1-15
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code Plot	1	2	3	4	5	6	7
1	NO HERBICIDE 10 DAP - V1						101	0.0	0.0	104.0	114.0	116.0	125.0	112.0
							209	0.0	0.0	116.0	114.0	117.0	111.0	115.0
							303	0.0	0.0	119.0	126.0	121.0	110.0	125.0
							406	0.0	0.0	118.0	107.0	116.0	114.0	104.0
							Mean =	0.0	0.0	114.3	115.3	117.5	115.0	114.0
2	NO HERBICIDE 17 DAP - V3						102	0.0	0.0	100.0	109.0	115.0	107.0	106.0
							205	0.0	0.0	113.0	116.0	113.0	116.0	113.0
							306	0.0	0.0	130.0	117.0	110.0	115.0	123.0
							404	0.0	0.0	105.0	102.0	111.0	119.0	115.0
							Mean =	0.0	0.0	112.0	111.0	112.3	114.3	114.3
3	NO HERBICIDE 23 DAP - V4-V5						103	0.0	0.0	114.0	113.0	113.0	110.0	109.0
							208	0.0	0.0	112.0	117.0	123.0	122.0	116.0
							304	0.0	0.0	116.0	124.0	132.0	122.0	125.0
							410	0.0	0.0	115.0	130.0	126.0	114.0	121.0
							Mean =	0.0	0.0	114.3	121.0	123.5	117.0	117.8
4	ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 0.67 oz/a	POST A POST A POST A			104	0.0	0.0	112.0	96.0	100.0	111.0	106.0
							211	0.0	5.0	107.0	123.0	113.0	111.0	112.0
							310	0.0	0.0	115.0	116.0	128.0	125.0	127.0
							405	0.0	0.0	109.0	112.0	116.0	106.0	110.0
							Mean =	0.0	1.3	110.8	111.8	114.3	113.3	113.8
5	ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 0.67 oz/a	POST A POST A POST A			105	0.0	5.0	114.0	110.0	107.0	104.0	109.0
							212	0.0	5.0	116.0	100.0	118.0	117.0	120.0
							305	5.0	10.0	126.0	124.0	124.0	124.0	113.0
							409	10.0	5.0	106.0	117.0	124.0	107.0	122.0
							Mean =	3.8	6.3	115.5	112.8	118.3	113.0	116.0
6	ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 0.67 oz/a	POST A POST A POST A			106	0.0	10.0	96.0	98.0	106.0	125.0	108.0
							204	0.0	0.0	107.0	115.0	117.0	118.0	119.0
							309	0.0	0.0	125.0	120.0	119.0	124.0	125.0
							407	0.0	0.0	110.0	117.0	117.0	116.0	118.0
							Mean =	0.0	2.5	109.5	112.5	114.8	120.8	117.5
7	ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 1.33 oz/a	POST A POST A POST A			107	0.0	10.0	115.0	104.0	109.0	108.0	100.0
							203	10.0	10.0	113.0	116.0	111.0	113.0	107.0
							311	5.0	0.0	118.0	127.0	121.0	125.0	124.0
							402	15.0	10.0	100.0	108.0	119.0	95.0	101.0
							Mean =	7.5	7.5	111.5	113.8	115.0	110.3	108.0
8	ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 1.33 oz/a	POST A POST A POST A			108	5.0	0.0	112.0	118.0	111.0	109.0	113.0
							202	15.0	10.0	114.0	119.0	107.0	114.0	105.0
							307	15.0	5.0	118.0	121.0	120.0	123.0	114.0
							403	20.0	10.0	98.0	107.0	104.0	98.0	105.0
							Mean =	13.8	6.3	110.5	116.3	110.5	111.0	109.3
9	ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 SL 4 L 75 WG	32.0 oz/a 48.0 oz/a 1.33 oz/a	POST A POST A POST A			109	0.0	0.0	105.0	114.0	118.0	111.0	113.0
							206	0.0	0.0	110.0	119.0	111.0	113.0	111.0
							312	0.0	0.0	123.0	121.0	124.0	117.0	120.0
							401	0.0	0.0	115.0	114.0	118.0	106.0	107.0
							Mean =	0.0	0.0	113.3	117.0	117.8	111.8	112.8
10	ROUNDUP P-MAX ATRAZINE 10 DAP - V1	5.5 SL 4 L	32.0 oz/a 48.0 oz/a	POST A POST A			110	0.0	0.0	108.0	107.0	114.0	115.0	114.0
							201	0.0	5.0	121.0	114.0	124.0	110.0	108.0
							302	0.0	0.0	111.0	110.0	116.0	118.0	119.0
							412	0.0	0.0	104.0	103.0	120.0	115.0	118.0
							Mean =	0.0	1.3	111.0	108.5	118.5	114.5	114.8
11	ROUNDUP P-MAX ATRAZINE 17 DAP - V3	5.5 SL 4 L	32.0 oz/a 48.0 oz/a	POST A POST A			111	0.0	0.0	127.0	121.0	124.0	128.0	130.0
							207	5.0	0.0	113.0	121.0	121.0	108.0	111.0
							308	0.0	0.0	115.0	122.0	126.0	125.0	122.0
							411	0.0	0.0	108.0	128.0	113.0	106.0	110.0
							Mean =	1.3	0.0	115.8	123.0	121.0	116.8	118.3
12	ROUNDUP P-MAX ATRAZINE 23 DAP - V4-V5	5.5 SL 4 L	32.0 oz/a 48.0 oz/a	POST A POST A			112	0.0	0.0	120.0	129.0	123.0	118.0	125.0
							210	0.0	0.0	124.0	116.0	124.0	113.0	125.0
							301	0.0	0.0	114.0	109.0	108.0	117.0	116.0
							408	0.0	0.0	106.0	115.0	120.0	124.0	124.0
							Mean =	0.0	0.0	116.0	117.3	118.8	118.0	122.5

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Weed Code												
Crop Code												
Part Rated												
Rating Data Type												
Rating Unit												
Rating Date												
PRM Data Type												
# Subsamples, Dec.												
Trt Treatment	Form Form	Rate Grow	Appl									
No. Name	Conc Type	Rate Unit	Stg	Code Plot	8	9	10	11	12	13	14	
1 NO HERBICIDE 10 DAP - V1				101	114	13.15	26.4	285	23	40075	19957	
				209	115	14.50	24.4	323	24	41818	22604	
				303	120	13.65	25.5	300	21	36590	20969	
				406	112	15.05	25.9	329	23	40075	22996	
				Mean =	115	14.09	25.6	309	23	39640	21631	
2 NO HERBICIDE 17 DAP - V3				102	107	14.15	26.4	307	25	43560	21475	
				205	114	14.65	24.4	326	23	40075	22838	
				306	119	15.20	25.5	334	23	40075	23350	
				404	110	16.10	25.9	351	26	45302	24600	
				Mean =	113	15.03	25.6	330	24	42253	23066	
3 NO HERBICIDE 23 DAP - V4-V5				103	112	13.70	26.4	297	21	36590	20792	
				208	118	13.75	24.4	306	23	40075	21435	
				304	124	14.80	25.5	325	23	40075	22736	
				410	121	15.65	25.9	342	24	41818	23912	
				Mean =	119	14.48	25.6	317	23	39640	22219	
4 ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 SL	32.0 oz/a	POST A	104	105	15.15	26.4	328	26	45302	22992	
	4 L	48.0 oz/a	POST A	211	113	14.73*	26.0*	321*	24*	41818*	22480*	
	75 WG	0.67 oz/a	POST A	310	122	14.30	25.5	314	22	38333	21968	
				405	111	14.73*	26.0*	321*	24*	41818*	22480*	
				Mean =	113	14.73	26.0	321	24	41818	22480	
5 ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 SL	32.0 oz/a	POST A	105	109	14.80	26.4	321	24	41818	22461	
	4 L	48.0 oz/a	POST A	212	114	15.02*	25.9*	328*	24*	42398*	22934*	
	75 WG	0.67 oz/a	POST A	305	122	14.55	25.5	319	24	41818	22352	
				409	115	15.70	25.9	343	25	43560	23989	
				Mean =	115	15.02	25.9	328	24	42398	22934	
6 ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 SL	32.0 oz/a	POST A	106	107	14.30	26.4	310	23	40075	21702	
	4 L	48.0 oz/a	POST A	204	115	14.65	24.4	326	23	40075	22838	
	75 WG	0.67 oz/a	POST A	309	123	13.85	25.5	304	24	41818	21276	
				407	116	13.30	25.9	290	23	40075	20322	
				Mean =	115	14.03	25.6	308	23	40511	21534	
7 ROUNDUP P-MAX ATRAZINE SANDEA 10 DAP - V1	5.5 SL	32.0 oz/a	POST A	107	107	13.95	26.4	302	23	40075	21171	
	4 L	48.0 oz/a	POST A	203	112	13.55	24.4	302	23	40075	21123	
	75 WG	1.33 oz/a	POST A	311	123	13.55	25.5	297	23	40075	20815	
				402	105	14.55	25.9	318	22	38333	22232	
				Mean =	112	13.90	25.6	305	23	39640	21335	
8 ROUNDUP P-MAX ATRAZINE SANDEA 17 DAP - V3	5.5 SL	32.0 oz/a	POST A	108	113	14.10	26.4	306	24	41818	21399	
	4 L	48.0 oz/a	POST A	202	112	13.85	24.4	308	24	41818	21591	
	75 WG	1.33 oz/a	POST A	307	119	14.10	25.5	309	23	40075	21660	
				403	102	13.05	25.9	285	22	38333	19940	
				Mean =	112	13.78	25.6	302	23	40511	21147	
9 ROUNDUP P-MAX ATRAZINE SANDEA 23 DAP - V4-V5	5.5 SL	32.0 oz/a	POST A	109	112	12.55	26.4	272	21	36590	19046	
	4 L	48.0 oz/a	POST A	206	113	13.60	24.4	303	22	38333	21201	
	75 WG	1.33 oz/a	POST A	312	121	14.70	25.5	323	23	40075	22582	
				401	112	15.20	25.9	332	24	41818	23225	
				Mean =	115	14.01	25.6	307	23	39204	21514	
10 ROUNDUP P-MAX ATRAZINE 10 DAP - V1	5.5 SL	32.0 oz/a	POST A	110	112	13.85	26.4	300	22	38333	21019	
	4 L	48.0 oz/a	POST A	201	115	13.95	24.4	311	22	38333	21746	
				302	115	15.25	25.5	335	25	43560	23427	
				412	112	15.95	25.9	348	23	40075	24371	
				Mean =	113	14.75	25.6	323	23	40075	22641	
11 ROUNDUP P-MAX ATRAZINE 17 DAP - V3	5.5 SL	32.0 oz/a	POST A	111	126	14.10	26.4	306	23	40075	21399	
	4 L	48.0 oz/a	POST A	207	115	13.85	24.4	308	23	40075	21591	
				308	122	14.65	25.5	322	23	40075	22505	
				411	113	14.50	25.9	317	25	43560	22155	
				Mean =	119	14.28	25.6	313	24	40946	21912	
12 ROUNDUP P-MAX ATRAZINE 23 DAP - V4-V5	5.5 SL	32.0 oz/a	POST A	112	123	15.15	26.4	328	24	41818	22992	
	4 L	48.0 oz/a	POST A	210	120	15.15	24.4	337	23	40075	23617	
				301	113	15.55	25.5	341	23	40075	23888	
				408	118	14.80	25.9	323	23	40075	22614	
				Mean =	119	15.16	25.6	333	23	40511	23278	

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Weed Code						-----		
Crop Code						ZEAMA		
Part Rated						EAR -		
Rating Data Type						WEIGHT		
Rating Unit						G/EAR		
Rating Date						Jul-20-15		
PRM Data Type						T5		
# Subsamples, Dec.						- 0		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Plot	
							15	
1	NO HERBICIDE						101	226
	10 DAP - V1						209	245
							303	260
							406	261
							Mean =	248
2	NO HERBICIDE						102	224
	17 DAP - V3						205	259
							306	265
							404	247
							Mean =	248
3	NO HERBICIDE						103	258
	23 DAP - V4-V5						208	243
							304	258
							410	260
							Mean =	254
4	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		104	230
	ATRAZINE	4 L		48.0 oz/a	POST A		211	245*
	SANDEA	75 WG		0.67 oz/a	POST A		310	260
	10 DAP - V1						405	245*
							Mean =	245
5	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		105	244
	ATRAZINE	4 L		48.0 oz/a	POST A		212	246*
	SANDEA	75 WG		0.67 oz/a	POST A		305	243
	17 DAP - V3						409	250
							Mean =	246
6	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		106	246
	ATRAZINE	4 L		48.0 oz/a	POST A		204	259
	SANDEA	75 WG		0.67 oz/a	POST A		309	231
	23 DAP - V4-V5						407	230
							Mean =	241
7	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		107	240
	ATRAZINE	4 L		48.0 oz/a	POST A		203	239
	SANDEA	75 WG		1.33 oz/a	POST A		311	236
	10 DAP - V1						402	263
							Mean =	245
8	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		108	232
	ATRAZINE	4 L		48.0 oz/a	POST A		202	234
	SANDEA	75 WG		1.33 oz/a	POST A		307	245
	17 DAP - V3						403	236
							Mean =	237
9	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		109	236
	ATRAZINE	4 L		48.0 oz/a	POST A		206	251
	SANDEA	75 WG		1.33 oz/a	POST A		312	256
	23 DAP - V4-V5						401	252
							Mean =	249
10	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		110	249
	ATRAZINE	4 L		48.0 oz/a	POST A		201	258
	10 DAP - V1						302	244
							412	276
							Mean =	257
11	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		111	242
	ATRAZINE	4 L		48.0 oz/a	POST A		207	245
	17 DAP - V3						308	255
							411	231
							Mean =	243
12	ROUNDUP P-MAX	5.5 SL		32.0 oz/a	POST A		112	250
	ATRAZINE	4 L		48.0 oz/a	POST A		210	268
	23 DAP - V4-V5						301	271
							408	256
							Mean =	261

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FIELD CORN RESPONSE TO ROUNDUP + SANDEA
IN A HIGH YIELD ENVIRONMENT

Trial ID: CN-03-15 Study Dir.: RANDY DOWDY/BEN SHIRLEY
Location: BROOKS COUNTY Investigator: Eric P. Prostko

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = ([3]+[4]+[5]+[6]+[7])/5

TY2 = 24.89143*[9]*(100-@MVAVGREP([10]))/84.5

T3 = [12]*1742.4

TY4 = 1742.4*[9]*(100-@MVAVGREP([10]))/84.5

T5 = ([14]/[13])*454