

University of Georgia

IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07B-20 Study Dir.: MASON NEWARK
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC							-	101	209	306
2	IMPACT CORE	7.15	EC	30.0 oz/a	EPOST A		23.43 mL/mx	1417.9 mL	102	201	314
	ATRAZINE	4 L		32.0 oz/a	EPOST A		25.0 mL/mx				
	NIS			0.25 % v/v	EPOST A		3.75 mL/mx				
	AMS	100	SG	2.5 lb/a	EPOST A		29.96 g/mx				
3	IMPACT CORE	7.15	EC	40.0 oz/a	EPOST A		31.25 mL/mx	1410.0 mL	103	212	304
	ATRAZINE	4 L		32.0 oz/a	EPOST A		25.0 mL/mx				
	NIS			0.25 % v/v	EPOST A		3.75 mL/mx				
	AMS	100	SG	2.5 lb/a	EPOST A		29.96 g/mx				
4	IMPACT CORE	7.15	EC	30.0 oz/a	EPOST A		23.43 mL/mx	1404.2 mL	104	206	305
	ATRAZINE	4 L		32.0 oz/a	EPOST A		25.0 mL/mx				
	ROUNDUP P-MAX II	5.5	SL	17.5 oz/a	EPOST A		13.67 mL/mx				
	NIS			0.25 % v/v	EPOST A		3.75 mL/mx				
	AMS	100	SG	2.5 lb/a	EPOST A		29.96 g/mx				
5	IMPACT CORE	7.15	EC	40.0 oz/a	EPOST A		31.25 mL/mx	1396.4 mL	105	207	312
	ATRAZINE	4 L		32.0 oz/a	EPOST A		25.0 mL/mx				
	ROUNDUP P-MAX II	5.5	SL	17.5 oz/a	EPOST A		13.67 mL/mx				
	NIS			0.25 % v/v	EPOST A		3.75 mL/mx				
	AMS	100	SG	2.5 lb/a	EPOST A		29.96 g/mx				
6	HALEX GT	4.39	SC	58.0 oz/a	EPOST A		45.31 mL/mx	1396.0 mL	106	205	313
	ATRAZINE	4 L		32.0 oz/a	EPOST A		25.0 mL/mx				
	NIS			0.25 % v/v	EPOST A		3.75 mL/mx				
	AMS	100	SG	2.5 lb/a	EPOST A		29.96 g/mx				
7	ROUNDUP P-MAX II	5.5	SL	32.0 oz/a	EPOST A		25.0 mL/mx	1400.0 mL	107	214	302
	ATRAZINE	4 L		64.0 oz/a	EPOST A		49.99 mL/mx				
	PROWL H20	3.8	SC	32.0 oz/a	EPOST A		25.0 mL/mx				
8	SINATE	2.57	SL	21.0 oz/a	EPOST A		16.4 mL/mx	1432.7 mL	108	213	310
	MSO			1.0 % v/v	EPOST A		15.0 mL/mx				
	AMS	100	SG	3.0 lb/a	EPOST A		35.95 g/mx				
9	SINATE	2.57	SL	21.0 oz/a	EPOST A		16.4 mL/mx	1425.9 mL	109	203	311
	ATRAZINE	90	DF	9.0 oz/a	EPOST A		6.74 g/mx				
	MSO			1.0 % v/v	EPOST A		15.0 mL/mx				
	AMS	100	SG	3.0 lb/a	EPOST A		35.95 g/mx				
10	SINATE	2.57	SL	28.0 oz/a	EPOST A		21.87 mL/mx	1427.2 mL	110	208	307
	MSO			1.0 % v/v	EPOST A		15.0 mL/mx				
	AMS	100	SG	3.0 lb/a	EPOST A		35.95 g/mx				
11	LIBERTY	2.34	SL	32.0 oz/a	EPOST A		25.0 mL/mx	1439.1 mL	111	210	308
	AMS	100	SG	3.0 lb/a	EPOST A		35.95 g/mx				
12	IMPACT	2.8	SC	1.0 oz/a	EPOST A		0.7812 mL/mx	1448.3 mL	112	211	303
	MSO			1.0 % v/v	EPOST A		15.0 mL/mx				
	AMS	100	SG	3.0 lb/a	EPOST A		35.95 g/mx				
13	ROUNDUP P-MAX II	5.5	SL	32.0 oz/a	EPOST A		25.0 mL/mx	1397.7 mL	113	204	301
	LAUDIS	3.5	SC	3.0 oz/a	EPOST A		2.343 mL/mx				
	ATRAZINE	4 L		64.0 oz/a	EPOST A		49.99 mL/mx				
	PROWL H20	3.8	SC	32.0 oz/a	EPOST A		25.0 mL/mx				
14	NTC							-	114	202	309

Sort Order: Replicate 1

Trial Comments

NIS = INDUCE

MSO = MES 100 (DREXEL)

IMPACT CORE = ACETOCHLOR (7.08 LBS/GAL) + TOPRAMEZONE (0.071 LBS/GAL)

HALEX GT = GLYPHOSATE (2.09 LB/GAL) + MESOTRIONE (0.209 LB/GAL) + S-METOLACHLOR (2.09 LB/GAL)

SINATE = GLUFOSINATE (2.47 LBS/GAL) + TOPRAMEZONE (0.10 LBS/GAL)

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HARVEST MOISTURE: 16.97%
YIELDS ADJUSTED TO 15.5% MOISTURE.

MISSING YIELD DATA IN PLOT#114 DUE TO HEAVY WEED PRESSURE WHICH PREVENTED COMBINING.

SUMMARY:

- 1) IMPACT CORE CAUSED CORN LEAF NECROSIS AND STUNTING.
- 2) ON JUNE 15 (48 DAT), PALMER AMARANTH CONTROL WAS > 97% WITH ALL TREATMENTS EXCEPT THE FOLLOWING:
 - A) SINATE + MSO + AMS = 72%-76% CONTROL
 - B) LIBERTY = 71% CONTROL
 - C) IMPACT + MSO + AMS = 80% CONTROL
- 3) ON JUNE 15 (48 DAT), ANNUAL GRASS CONTROL WAS > 80% WITH ALL TREATMENTS EXCEPT THE FOLLOWING:
 - A) IMPACT CORE @ 30 OZ/A + ATRAZINE + NIS + AMS = 77% CONTROL
 - B) SINATE + MSO + AMS = 55%-72% CONTROL
 - C) LIBERTY = 70% CONTROL.
- 4) ON JUNE 15 (48 DAT), WILD RADISH CONTROL WAS > 80% WITH ALL TREATMENTS EXCEPT THE FOLLOWING:
 - A) SINATE + MSO + AMS = 65%-67% CONTROL
 - B) LIBERTY = 0% CONTROL
- 5) GENERALLY, SINATE + ATRAZINE AND IMPACT CORE + ATRAZINE PROVIDED SIMILAR WEED CONTROL AS CURRENT STANDARDS OF HALEX GT + ATRAZINE, ROUNDUP + LAUDIS + ATRAZINE + PROWL H2O, AND ROUNDUP + ATRAZINE + PROWL H2O.
- 6) SINATE WAS MORE EFFECTIVE ON WILD RADISH THAN LIBERTY.
- 7) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC. THERE WERE NO DIFFERENCES IN YIELD BETWEEN HERBICIDE TREATMENTS.

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Trial ID: CN-07B-20 Study Dir.: MASON NEWARK
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: MASON NEWARK

Title: _____

Affiliation: _____

Postal Code: _____

Investigator: Eric P. Prostko

Title: _____

Postal Code: _____

Trial Status: E

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. AMAPA PALMER AMARANTH

2. _____

AGRASS

TX PAN;CROW/GOOSE/CRAB

Weed 3. RAPRA WILD RADISH

4. _____

Weed 5. _____

6. _____

Crop 1: ZEAMA FIELD CORN

Variety: DKC 62-08

Planting Date: _____

Apr-9-20

Planting Method: MONOSEM

Rate: 36300 SEED/A

Depth: 2 IN

Perennial Age: _____

Row Spacing: 36 IN

Seed Bed: _____

Soil Temperature: _____

Soil Moisture: OPTIMUM

Emergence Date: _____

Plot Width, Unit: 6 FT

Plot Length, Unit: 25 FT

Reps: 3

Site Type: _____

Tillage Type: CONVENTIONAL

Study Design: RACOB

Trial Initiation Comments: 1 TON/A LIME - PREPLANT; 800 LBS/A 5-15-30 PREPLANT;
 254 LBS/A N SIDEDRESS IN 2 APPS; AXILO-BMZ @ 2 LBS/A

Previous: Crops

Pesticides

Year

1. SOYBEAN

2019

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND

% OM: 0.82

% Sand: 96

% Silt: 2

% Clay: 2

pH: 6.0

CEC: 2.9

Soil Name: TIFTON

Fertility Level: _____

GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-8-20		0.3	IN	RAINFALL		
2. Apr-13-20		0.3	IN	RAINFALL		
3. Apr-18-20		0.04	IN	RAINFALL		
4. Apr-19-20		0.8	IN	RAINFALL		
5. Apr-20-20		0.65	IN	RAINFALL		
6. Apr-23-20		2.4	IN	RAINFALL		
7. Apr-30-20		0.9	IN	RAINFALL		
8. May-7-20		0.5	IN	RAINFALL		
9. May-14-20		0.5	IN	SPRINKLER - LATERAL MOVE		
10. May-15-20		0.35	IN	SPRINKLER - LATERAL MOVE		
11. May-17-20		0.11	IN	RAINFALL		
12. May-20-20		1.3	IN	RAINFALL		
13. May-22-20		1.2	IN	RAINFALL		
14. May-26-20		0.26	IN	RAINFALL		
15. May-28-20		0.41	IN	RAINFALL		
16. May-29-20		0.19	IN	RAINFALL		
17. Jun-1-20		0.5	IN	SPRINKLER - LATERAL MOVE		

Overall Moisture Conditions: _____

Closest Weather Station: _____

Distance: _____

Unit: _____

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Trial ID: CN-07B-20 Study Dir.: MASON NEWARK
 Location: PONDER FARM Investigator: Eric P. Prostko

APPLICATION DESCRIPTION						
	A	B	C	D	E	F
Application Date:	Apr-28-20					
Time of Day:	7:30 AM					
Application Method:	BROADCAST					
Application Timing:	EPOST					
Applic. Placement:	FOLIAGE					
Air Temp., Unit:	56 F					
% Relative Humidity:	86					
Wind Velocity, Unit:	1 MPH					
Dew Presence (Y/N):	--					
Water Hardness:	--					
Soil Temp., Unit:	62 F					
Soil Moisture:	OPTIMUM					
% Cloud Cover:	0					

CROP STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Crop 1 Stage: ZEAMA						
Stage Scale:	5"; V4					
Height, Unit:						

WEED STAGE AT EACH APPLICATION						
	A	B	C	D	E	F
Weed 1 Stage: AMAPA 0.5-1"						
Stage Scale:						
Density, Unit:						
Weed 2 Stage: AGRASS 1-2"						
Stage Scale:						
Density, Unit:						
Weed 3 Stage: RAPRA 1-2" TALL						
Stage Scale:	2-4" DIAM					
Density, Unit:						

APPLICATION EQUIPMENT						
	A	B	C	D	E	F
Appl. Equipment:	BACKPACK					
Operating Pressure:	42					
Nozzle Type:	AIXR					
Nozzle Size:	11002					
Nozzle Spacing, Unit:	20 IN					
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60 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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Trial ID: CN-07B-20		Study Dir.: MASON NEWARK									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code		-----		-----	-----	Amapa	Rapra	Agrass	---	Amapa	Rapra
Crop Code		ZEAMA	Zeama	Zeama	-----	-----	-----	-----	Zeama	-----	-----
Part Rated		LEAF -	Stunt -	Leaf -							
Rating Data Type		NECROSIS	Percent	Necrosis	Control	Control	Control	Control	Stunting	Control	Control
Rating Unit		PERCENT	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date		Apr-30-20	May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-18-20	May-18-20	May-18-20
Trt-Eval Interval											
PRM Data Type		AS									
# Subsamples, Dec.											
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code	1	2	3	4	5	6	7	8	9
1 NTC			0.0 e	0.0 b	0.0 d	0.0 b	0.0 d	0.0 b	0.0 d	0.0 d	0.0 e
2 IMPACT CORE	30.0 oz/a	A	11.6 b	1.7 b	13.3 a	99.0 a	99.0 a	99.0 a	6.7 bc	99.0 a	97.7 ab
ATRAZINE	32.0 oz/a	A									
NIS	0.25 % v/v	A									
AMS	2.5 lb/a	A									
3 IMPACT CORE	40.0 oz/a	A	20.0 a	6.7 a	15.0 a	99.0 a	99.0 a	99.0 a	10.0 b	99.0 a	99.0 a
ATRAZINE	32.0 oz/a	A									
NIS	0.25 % v/v	A									
AMS	2.5 lb/a	A									
4 IMPACT CORE	30.0 oz/a	A	5.0 d	6.7 a	10.0 b	99.0 a	99.0 a	99.0 a	11.7 ab	99.0 a	97.7 ab
ATRAZINE	32.0 oz/a	A									
ROUNDUP P-MAX II	17.5 oz/a	A									
NIS	0.25 % v/v	A									
AMS	2.5 lb/a	A									
5 IMPACT CORE	40.0 oz/a	A	10.0 c	6.7 a	15.0 a	99.0 a	99.0 a	99.0 a	16.7 a	99.0 a	99.0 a
ATRAZINE	32.0 oz/a	A									
ROUNDUP P-MAX II	17.5 oz/a	A									
NIS	0.25 % v/v	A									
AMS	2.5 lb/a	A									
6 HALEX GT	58.0 oz/a	A	0.0 e	3.3 ab	1.7 cd	99.0 a	99.0 a	99.0 a	6.7 bc	99.0 a	97.7 ab
ATRAZINE	32.0 oz/a	A									
NIS	0.25 % v/v	A									
AMS	2.5 lb/a	A									
7 ROUNDUP P-MAX II	32.0 oz/a	A	0.0 e	0.0 b	0.0 d	99.0 a	99.0 a	99.0 a	0.0 d	99.0 a	99.0 a
ATRAZINE	64.0 oz/a	A									
PROWL H20	32.0 oz/a	A									
8 SINATE	21.0 oz/a	A	0.0 e	0.0 b	0.0 d	99.0 a	88.0 b	99.0 a	0.0 d	97.7 ab	76.3 c
MSO	1.0 % v/v	A									
AMS	3.0 lb/a	A									
9 SINATE	21.0 oz/a	A	0.0 e	0.0 b	3.3 c	99.0 a	99.0 a	99.0 a	0.0 d	99.0 a	93.3 ab
ATRAZINE	9.0 oz/a	A									
MSO	1.0 % v/v	A									
AMS	3.0 lb/a	A									
10 SINATE	28.0 oz/a	A	0.0 e	0.0 b	1.7 cd	99.0 a	89.7 b	99.0 a	0.0 d	97.7 ab	93.0 ab
MSO	1.0 % v/v	A									
AMS	3.0 lb/a	A									
11 LIBERTY	32.0 oz/a	A	0.0 e	0.0 b	0.0 d	99.0 a	13.3 c	99.0 a	1.7 cd	93.3 c	33.3 d
AMS	3.0 lb/a	A									
12 IMPACT	1.0 oz/a	A	0.0 e	3.3 ab	0.0 d	99.0 a	93.0 b	99.0 a	8.3 b	94.3 bc	84.7 bc
MSO	1.0 % v/v	A									
AMS	3.0 lb/a	A									
13 ROUNDUP P-MAX II	32.0 oz/a	A	0.0 e	1.7 b	0.0 d	99.0 a	99.0 a	99.0 a	0.0 d	99.0 a	96.3 ab
LAUDIS	3.0 oz/a	A									
ATRAZINE	64.0 oz/a	A									
PROWL H20	32.0 oz/a	A									

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

Missing data estimates are included in columns: Yates=14,15

Could not calculate LSD (% mean diff) for columns 4,6 because error mean square = 0.

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN										
Trial ID: CN-07B-20		Study Dir.: MASON NEWARK								
Location: PONDER FARM		Investigator: Eric P. Prostko								
Weed Code	-----	-----	-----	Amapa	Rapra	Agrass	---	Amapa	Rapra	
Crop Code	ZEAMA	Zeama	Zeama	-----	-----	-----	Zeama	-----	-----	
Part Rated	LEAF -	Stunt -	Leaf -							
Rating Data Type	NECROSIS		Necrosis	Control	Control	Control	Stunting	Control	Control	
Rating Unit	PERCENT	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date	Apr-30-20	May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-18-20	May-18-20	May-18-20	
Trt-Eval Interval										
PRM Data Type	AS									
# Subsamples, Dec.										
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code								
	1	2	3	4	5	6	7	8	9	
14 NTC	0.0 e	0.0 b	0.0 d	0.0 b	0.0 d	0.0 b	0.0 d	0.0 d	0.0 e	
LSD P=.10	0.72 - 1.33	4.49	2.04	.	5.81	.	6.23	3.45	13.97	
Standard Deviation	0.11t	3.22	1.47	0.00	4.17	0.00	4.47	2.48	10.03	
CV	7.29t	150.45	34.23	0.0	5.43	0.0	101.55	2.96	13.16	
Grand Mean	1.48t	2.14	4.29	84.86	76.86	84.86	4.40	83.93	76.21	
Levene's F	1.00	0.587	0.00	0.00	1.279	0.00	0.902	0.855	0.854	
Levene's Prob(F)	0.477	0.844	0.00*	0.00*	0.282	0.00*	0.562	0.604	0.605	
Replicate F	1.000	2.233	2.489	0.000	1.236	0.000	0.744	0.708	2.764	
Replicate Prob(F)	0.3816	0.1273	0.1025	1.0000	0.3071	1.0000	0.4852	0.5018	0.0816	
Treatment F	460.944	2.150	52.255	0.000	269.544	0.000	4.652	618.161	40.022	
Treatment Prob(F)	0.0001	0.0469	0.0001	1.0000	0.0001	1.0000	0.0004	0.0001	0.0001	

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Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code		Agrass	Amapa	AGRASS	Rapra	-----	-----
Crop Code		-----	-----	-----	-----	ZEAMA	ZEAMA
Part Rated						PLOT -	PLOT -
Rating Data Type		Control	Control	Control	Control	YIELD	YIELD
Rating Unit		Percent	Percent	Percent	Percent	LBS/PLOT	BU/A
Rating Date		May-18-20	Jun-15-20	Jun-15-20	Jun-15-20	Aug-26-20	Aug-26-20
Trt-Eval Interval						120 DA-A	120 DA-A
PRM Data Type							TY1
# Subsamples, Dec.							- 1
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	10	11	12	13	14
1 NTC			0.0 d	0.0 c	0.0 e	0.0 d	17.0 b
2 IMPACT CORE	30.0 oz/a	A	93.0 bc	97.7 a	76.7 bc	91.7 ab	30.7 a
ATRAZINE	32.0 oz/a	A					156.3 a
NIS	0.25 % v/v	A					
AMS	2.5 lb/a	A					
3 IMPACT CORE	40.0 oz/a	A	99.0 a	96.3 a	93.3 a	93.0 ab	30.0 a
ATRAZINE	32.0 oz/a	A					152.9 a
NIS	0.25 % v/v	A					
AMS	2.5 lb/a	A					
4 IMPACT CORE	30.0 oz/a	A	99.0 a	99.0 a	94.7 a	93.3 ab	30.7 a
ATRAZINE	32.0 oz/a	A					156.3 a
ROUNDUP P-MAX II	17.5 oz/a	A					
NIS	0.25 % v/v	A					
AMS	2.5 lb/a	A					
5 IMPACT CORE	40.0 oz/a	A	99.0 a	97.7 a	90.0 ab	97.7 a	30.3 a
ATRAZINE	32.0 oz/a	A					154.6 a
ROUNDUP P-MAX II	17.5 oz/a	A					
NIS	0.25 % v/v	A					
AMS	2.5 lb/a	A					
6 HALEX GT	58.0 oz/a	A	99.0 a	97.7 a	93.0 a	94.7 ab	32.0 a
ATRAZINE	32.0 oz/a	A					163.1 a
NIS	0.25 % v/v	A					
AMS	2.5 lb/a	A					
7 ROUNDUP P-MAX II	32.0 oz/a	A	97.7 ab	97.7 a	93.3 a	93.0 ab	32.0 a
ATRAZINE	64.0 oz/a	A					163.1 a
PROWL H20	32.0 oz/a	A					
8 SINATE	21.0 oz/a	A	89.7 c	76.3 b	55.0 d	65.0 c	35.0 a
MSO	1.0 % v/v	A					178.3 a
AMS	3.0 lb/a	A					
9 SINATE	21.0 oz/a	A	99.0 a	97.7 a	81.7 abc	89.7 ab	35.7 a
ATRAZINE	9.0 oz/a	A					181.7 a
MSO	1.0 % v/v	A					
AMS	3.0 lb/a	A					
10 SINATE	28.0 oz/a	A	96.0 ab	71.7 b	71.7 c	66.7 c	35.7 a
MSO	1.0 % v/v	A					181.7 a
AMS	3.0 lb/a	A					
11 LIBERTY	32.0 oz/a	A	94.7 abc	71.3 b	70.0 c	0.0 d	33.7 a
AMS	3.0 lb/a	A					171.5 a
12 IMPACT	1.0 oz/a	A	97.7 ab	80.0 b	83.3 abc	80.0 bc	35.0 a
MSO	1.0 % v/v	A					178.3 a
AMS	3.0 lb/a	A					
13 ROUNDUP P-MAX II	32.0 oz/a	A	99.0 a	97.7 a	91.3 a	88.0 ab	31.3 a
LAUDIS	3.0 oz/a	A					159.7 a
ATRAZINE	64.0 oz/a	A					
PROWL H20	32.0 oz/a	A					

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN						
Trial ID: CN-07B-20		Study Dir.: MASON NEWARK				
Location: PONDER FARM		Investigator: Eric P. Prostko				
Weed Code	Agrass	Amapa	AGRASS	Rapra	-----	-----
Crop Code	-----	-----	-----	-----	ZEAMA	ZEAMA
Part Rated					PLOT -	PLOT -
Rating Data Type	Control	Control	Control	Control	YIELD	YIELD
Rating Unit	Percent	Percent	Percent	Percent	LBS/PLOT	BU/A
Rating Date	May-18-20	Jun-15-20	Jun-15-20	Jun-15-20	Aug-26-20	Aug-26-20
Trt-Eval Interval					120 DA-A	120 DA-A
PRM Data Type						TY1
# Subsamples, Dec.						- 1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code				
14 NTC	10	11	12	13	14	15
	0.0 d	0.0 c	0.0 e	0.0 d	20.4 b	104.1 b
LSD P=.10	5.06	14.13	13.85	16.05	5.75	29.29
Standard Deviation	3.64	10.14	9.94	11.53	4.12	21.00
CV	4.38	13.14	14.0	16.94	13.44	13.44
Grand Mean	83.05	77.19	71.00	68.05	30.67	156.29
Levene's F	1.002	1.111	0.852	0.645	0.512	0.512
Levene's Prob(F)	0.475	0.39	0.607	0.796	0.898	0.898
Replicate F	0.267	0.229	0.126	1.620	5.244	5.244
Replicate Prob(F)	0.7680	0.7972	0.8818	0.2173	0.0125	0.0125
Treatment F	282.762	34.417	31.405	32.903	5.337	5.337
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0002	0.0002

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
t=Mean descriptions are reported in transformed data units, and are not de-transformed.
Missing data estimates are included in columns: Yates=14,15
Could not calculate LSD (% mean diff) for columns 4,6 because error mean square = 0.

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN										
Trial ID:		CN-07B-20		Study Dir.:		MASON NEWARK				
Location:		PONDER FARM		Investigator:		Eric P. Prostko				
Weed Code Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L. Part Rated LEAF = LEAF / FOLIAGE PRM Data Type TY1 = 5.095501*[14]										
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	PRM Data Type	# Subsamples, Dec.		
			</							

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN											
Trial ID: CN-07B-20		Study Dir.: MASON NEWARK									
Location: PONDER FARM		Investigator: Eric P. Prostko									
Weed Code				-----	-----	-----	Amapa	Rapra	Agrass	---	Amapa
Crop Code				ZEAMA	Zeama	Zeama	-----	-----	-----	Zeama	-----
Part Rated				LEAF -	Stunt -	Leaf -					
Rating Data Type				NECROSIS		Necrosis	Control	Control	Control	Stunting	Control
Rating Unit				PERCENT	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Date				Apr-30-20	May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-18-20	May-18-20
Trt-Eval Interval											
PRM Data Type				AS							
# Subsamples, Dec.											
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code Plot		1	2	3	4	5	6	7	8
11 LIBERTY	32.0 oz/a	A 111		0.0	0.0	0.0	99.0	10.0	99.0	5.0	95.0
AMS	3.0 lb/a	A 210		0.0	0.0	0.0	99.0	10.0	99.0	0.0	90.0
		308		0.0	0.0	0.0	99.0	20.0	99.0	0.0	95.0
		Mean =		0.0d	0.0	0.0	99.0	13.3	99.0	1.7	93.3
12 IMPACT	1.0 oz/a	A 112		0.0	10.0	0.0	99.0	85.0	99.0	20.0	85.0
MSO	1.0 % v/v	A 211		0.0	0.0	0.0	99.0	99.0	99.0	0.0	99.0
AMS	3.0 lb/a	A 303		0.0	0.0	0.0	99.0	95.0	99.0	5.0	99.0
		Mean =		0.0d	3.3	0.0	99.0	93.0	99.0	8.3	94.3
13 ROUNDUP P-MAX II	32.0 oz/a	A 113		0.0	0.0	0.0	99.0	99.0	99.0	0.0	99.0
LAUDIS	3.0 oz/a	A 204		0.0	5.0	0.0	99.0	99.0	99.0	0.0	99.0
ATRAZINE	64.0 oz/a	A 301		0.0	0.0	0.0	99.0	99.0	99.0	0.0	99.0
PROWL H20	32.0 oz/a	A									
		Mean =		0.0d	1.7	0.0	99.0	99.0	99.0	0.0	99.0
14 NTC		114		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		202		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		309		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =		0.0d	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07B-20 Study Dir.: MASON NEWARK
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Rapra	Agrass	Amapa	AGRASS	Rapra	ZEAMA	ZEAMA
Crop Code				-----	-----	-----	-----	-----	PLOT -	PLOT -
Part Rated									YIELD	YIELD
Rating Data Type				Control	Control	Control	Control	Control	LBS/PLOT	BU/A
Rating Unit				Percent	Percent	Percent	Percent	Percent	Aug-26-20	Aug-26-20
Rating Date				May-18-20	May-18-20	Jun-15-20	Jun-15-20	Jun-15-20	120 DA-A	120 DA-A
Trt-Eval Interval										
PRM Data Type										
# Subsamples, Dec.										
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot		9	10	11	12	13	14	15
1 NTC		101		0.0	0.0	0.0	0.0	0.0	10.0	51.0
		209		0.0	0.0	0.0	0.0	0.0	21.0	107.0
		306		0.0	0.0	0.0	0.0	0.0	20.0	101.9
		Mean =		0.0	0.0	0.0	0.0	0.0	17.0	86.6
2 IMPACT CORE	30.0 oz/a	A	102	99.0	99.0	95.0	85.0	90.0	31.0	158.0
ATRAZINE	32.0 oz/a	A	201	99.0	95.0	99.0	85.0	95.0	30.0	152.9
NIS	0.25 % v/v	A	314	95.0	85.0	99.0	60.0	90.0	31.0	158.0
AMS	2.5 lb/a	A								
		Mean =		97.7	93.0	97.7	76.7	91.7	30.7	156.3
3 IMPACT CORE	40.0 oz/a	A	103	99.0	99.0	95.0	95.0	90.0	33.0	168.2
ATRAZINE	32.0 oz/a	A	212	99.0	99.0	95.0	90.0	90.0	30.0	152.9
NIS	0.25 % v/v	A	304	99.0	99.0	99.0	95.0	99.0	27.0	137.6
AMS	2.5 lb/a	A								
		Mean =		99.0	99.0	96.3	93.3	93.0	30.0	152.9
4 IMPACT CORE	30.0 oz/a	A	104	99.0	99.0	99.0	95.0	90.0	34.0	173.2
ATRAZINE	32.0 oz/a	A	206	99.0	99.0	99.0	90.0	95.0	33.0	168.2
ROUNDUP P-MAX II	17.5 oz/a	A	305	95.0	99.0	99.0	99.0	95.0	25.0	127.4
NIS	0.25 % v/v	A								
AMS	2.5 lb/a	A								
		Mean =		97.7	99.0	99.0	94.7	93.3	30.7	156.3
5 IMPACT CORE	40.0 oz/a	A	105	99.0	99.0	99.0	95.0	99.0	29.0	147.8
ATRAZINE	32.0 oz/a	A	207	99.0	99.0	95.0	90.0	95.0	33.0	168.2
ROUNDUP P-MAX II	17.5 oz/a	A	312	99.0	99.0	99.0	85.0	99.0	29.0	147.8
NIS	0.25 % v/v	A								
AMS	2.5 lb/a	A								
		Mean =		99.0	99.0	97.7	90.0	97.7	30.3	154.6
6 HALEX GT	58.0 oz/a	A	106	95.0	99.0	99.0	85.0	90.0	40.0	203.8
ATRAZINE	32.0 oz/a	A	205	99.0	99.0	99.0	99.0	99.0	26.0	132.5
NIS	0.25 % v/v	A	313	99.0	99.0	95.0	95.0	95.0	30.0	152.9
AMS	2.5 lb/a	A								
		Mean =		97.7	99.0	97.7	93.0	94.7	32.0	163.1
7 ROUNDUP P-MAX II	32.0 oz/a	A	107	99.0	99.0	99.0	95.0	85.0	38.0	193.6
ATRAZINE	64.0 oz/a	A	214	99.0	95.0	95.0	95.0	95.0	32.0	163.1
PROWL H20	32.0 oz/a	A	302	99.0	99.0	99.0	90.0	99.0	26.0	132.5
		Mean =		99.0	97.7	97.7	93.3	93.0	32.0	163.1
8 SINATE	21.0 oz/a	A	108	65.0	85.0	65.0	50.0	50.0	40.0	203.8
MSO	1.0 % v/v	A	213	65.0	85.0	65.0	50.0	50.0	32.0	163.1
AMS	3.0 lb/a	A	310	99.0	99.0	99.0	65.0	95.0	33.0	168.2
		Mean =		76.3	89.7	76.3	55.0	65.0	35.0	178.3
9 SINATE	21.0 oz/a	A	109	90.0	99.0	95.0	75.0	75.0	41.0	208.9
ATRAZINE	9.0 oz/a	A	203	95.0	99.0	99.0	85.0	95.0	35.0	178.3
MSO	1.0 % v/v	A	311	95.0	99.0	99.0	85.0	99.0	31.0	158.0
AMS	3.0 lb/a	A								
		Mean =		93.3	99.0	97.7	81.7	89.7	35.7	181.7
10 SINATE	28.0 oz/a	A	110	90.0	99.0	85.0	75.0	75.0	39.0	198.7
MSO	1.0 % v/v	A	208	99.0	99.0	65.0	65.0	60.0	35.0	178.3
AMS	3.0 lb/a	A	307	90.0	90.0	65.0	75.0	65.0	33.0	168.2
		Mean =		93.0	96.0	71.7	71.7	66.7	35.7	181.7

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN

Trial ID: CN-07B-20 Study Dir.: MASON NEWARK
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Rapra	Agrass	Amapa	AGRASS	Rapra	-----	-----
Crop Code				-----	-----	-----	-----	-----	ZEAMA	ZEAMA
Part Rated									PLOT -	PLOT -
Rating Data Type				Control	Control	Control	Control	Control	YIELD	YIELD
Rating Unit				Percent	Percent	Percent	Percent	Percent	LBS/PLOT	BU/A
Rating Date				May-18-20	May-18-20	Jun-15-20	Jun-15-20	Jun-15-20	Aug-26-20	Aug-26-20
Trt-Eval Interval									120 DA-A	120 DA-A
PRM Data Type										TY1
# Subsamples, Dec.										- 1
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code Plot		9	10	11	12	13	14	15
11 LIBERTY	32.0 oz/a	A 111		0.0	99.0	99.0	95.0	0.0	36.0	183.4
AMS	3.0 lb/a	A 210		50.0	95.0	65.0	65.0	0.0	32.0	163.1
		308		50.0	90.0	50.0	50.0	0.0	33.0	168.2
		Mean =		33.3	94.7	71.3	70.0	0.0	33.7	171.5
12 IMPACT	1.0 oz/a	A 112		65.0	95.0	65.0	65.0	50.0	39.0	198.7
MSO	1.0 % v/v	A 211		99.0	99.0	85.0	90.0	95.0	36.0	183.4
AMS	3.0 lb/a	A 303		90.0	99.0	90.0	95.0	95.0	30.0	152.9
		Mean =		84.7	97.7	80.0	83.3	80.0	35.0	178.3
13 ROUNDUP P-MAX II	32.0 oz/a	A 113		95.0	99.0	99.0	99.0	99.0	36.0	183.4
LAUDIS	3.0 oz/a	A 204		99.0	99.0	99.0	85.0	95.0	29.0	147.8
ATRAZINE	64.0 oz/a	A 301		95.0	99.0	95.0	90.0	70.0	29.0	147.8
PROWL H20	32.0 oz/a	A								
		Mean =		96.3	99.0	97.7	91.3	88.0	31.3	159.7
14 NTC		114		0.0	0.0	0.0	0.0	0.0	23.3*	118.6*
		202		0.0	0.0	0.0	0.0	0.0	13.0	66.2
		309		0.0	0.0	0.0	0.0	0.0	25.0	127.4
		Mean =		0.0	0.0	0.0	0.0	0.0	20.4	104.1

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IMPACT CORE AND SINATE FOR WEED CONTROL IN FIELD CORN

Trial ID:	CN-07B-20	Study Dir.:	MASON NEWARK
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Weed Code

Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L.

Part Rated

LEAF = LEAF / FOLIAGE

PRM Data Type

TY1 = 5.095501*[14]