

University of Georgia

SINATE + WSSA GROUP#15 TANK-MIXES FOR WEED CONTROL IN FIELD CORN	
Trial ID: CN-08BB-20	Study Dir.: MASON NEWARK
Location: PONDER FARM	Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC							-	101	205	303
2	HARNESS MSO AMS	7 EC 100 SG	32.0 oz/a 0.5 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A			25.0 mL/mx 7.499 mL/mx 35.95 g/mx	1431.6 mL	102	203	308
3	DUAL II MAGNUM MSO AMS	7.64 EC 100 SG	24.0 oz/a 0.5 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A			18.75 mL/mx 7.499 mL/mx 35.95 g/mx	1437.8 mL	103	210	307
4	SINATE NIS AMS	2.57 SL 100 SG	28.0 oz/a 0.25 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A			21.87 mL/mx 3.75 mL/mx 35.95 g/mx	1438.4 mL	104	211	312
5	SINATE MSO AMS	2.57 SL 100 SG	28.0 oz/a 0.5 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A			21.87 mL/mx 7.499 mL/mx 35.95 g/mx	1434.7 mL	105	209	302
6	SINATE HARNESS NIS AMS	2.57 SL 7 EC 100 SG	28.0 oz/a 32.0 oz/a 0.25 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A EPOST A			21.87 mL/mx 25.0 mL/mx 3.75 mL/mx 35.95 g/mx	1413.4 mL	106	201	304
7	SINATE HARNESS MSO AMS	2.57 SL 7 EC 100 SG	28.0 oz/a 32.0 oz/a 0.5 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A EPOST A			21.87 mL/mx 25.0 mL/mx 7.499 mL/mx 35.95 g/mx	1409.7 mL	107	212	310
8	SINATE DUAL II MAGNUM NIS AMS	2.57 SL 7.64 EC 100 SG	28.0 oz/a 24.0 oz/a 0.25 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A EPOST A			21.87 mL/mx 18.75 mL/mx 3.75 mL/mx 35.95 g/mx	1419.7 mL	108	206	301
9	SINATE DUAL II MAGNUM MSO AMS	2.57 SL 7.64 EC 100 SG	28.0 oz/a 24.0 oz/a 0.5 % v/v 3.0 lb/a	EPOST A EPOST A EPOST A EPOST A			21.87 mL/mx 18.75 mL/mx 7.499 mL/mx 35.95 g/mx	1415.9 mL	109	207	309
10	LIBERTY AMS	2.34 SL 100 SG	32.0 oz/a 3.0 lb/a	EPOST A EPOST A			25.0 mL/mx 35.95 g/mx	1439.1 mL	110	202	306
11	ROUNDUP P-MAX II ATRAZINE PROWL H20	5.5 SL 4 L 3.8 SC	32.0 oz/a 64.0 oz/a 32.0 oz/a	EPOST A EPOST A EPOST A			25.0 mL/mx 49.99 mL/mx 25.0 mL/mx	1400.0 mL	111	208	311
12	NTC							-	112	204	305

Sort Order: Replicate 1

Trial Comments

NIS = INDUCE

MSO = MES 100 (DREXEL)

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

HARVEST MOISTURE: 16.97%

YIELD ADJUSTED TO 15.5% MOISTURE.

SUMMARY:

1) TANK-MIXTURES OF OF HARNESS WITH SINATE INCREASED CORN INJURY (LEAF NECROSIS). INJURY WAS GREATER WITH MSO THAN WITH NIS.

2) TANK-MIXTURES OF DUAL II MAGNUM + NIS WITH SINATE DID NOT INCREASE LEAF NECROSIS. HOWEVER, SINATE + DUAL II + MSO CAUSED SIGNIFICANT LEAF NECROSIS.

3) ADDITIONS OF HARNESS OR DUAL II MAGNUM WITH SINATE SIGNIFICANTLY IMPROVED THE THE CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES (~+15-18%).

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- 4) ADDITIONS OF HARNESS OR DUAL II MAGNUM WITH SINATE DID NOT IMPROVE THE CONTROL OF WILD RADISH.
- 5) LIBERTY PROVIDED POOR CONTROL OF WILD RADISH (<47%). SINATE MAYBE MORE EFFECTIVE ON WILD RADISH THAN LIBERTY?
- 6) ALL HERBICIDE TREATED PLOTS HAD HIGHER YIELDS THAN THE NTC PLOTS. THERE WERE NO DIFFERENCES IN YIELD BETWEEN HERBICIDE TREATED PLOTS WITH THE FOLLOWING EXCEPTION:
- *YIELDS FROM PLOTS TREATED WITH A SINGLE POST APPLICATION OF HARNESS + MSO + AMS WERE LOWER THAN SEVERAL OTHER TREATMENTS.

GENERAL TRIAL INFORMATION

Study Director: MASON NEWARK **Title:** _____ **Postal Code:** _____
Affiliation: _____

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

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:** RAPRA WILD RADISH
Weed 3: AGRASS CRAB;T.PANCIUM;GOOSE/CROW **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 TOTAL NITROGEN SIDEDRESS IN 2 APPS; AXILO-BMZ @ 2 LBS/A - POST

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

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MOISTURE CONDITIONS			
On: Date	Time	Amount	Unit Type Interval Unit
1. Apr-8-20		0.3	IN RAINFALL
2. Apr-13-20		0.9	IN RAINFALL
3. Apr-18-20		0.04	IN RAINFALL
4. Apr-19-20		0.80	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 SPRINKLER - LATERAL MOVE
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
Overall Moisture Conditions: _____ Closest Weather Station: _____ Distance: _____ Unit: _____			

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):	Y					
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:	V4:5"					
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:	RAPRA 1-2"					
Stage Scale:						
Density, Unit:						
Weed 3 Stage:	AGRASS 1-2"					
Stage Scale:						
Density, Unit:						

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APPLICATION EQUIPMENT						
		A	B	C	D	E
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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SINATE + WSSA GROUP#15 TANK-MIXES FOR WEED CONTROL IN FIELD CORN Trial ID: CN-08BB-20 Study Dir.: MASON NEWARK Location: PONDER FARM Investigator: Eric P. Prostko											
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.		----- Zeama Stunting Percent May-5-20	----- Zeama Leaf - Necrosis Percent May-5-20	Amapa ----- Control Percent May-5-20	Rapra ----- Control Percent May-5-20	Agrass ----- Control Percent May-5-20	----- Zeama Plant - Stunting Percent May-21-20	Amapa ----- Control Percent May-21-20	Rapra ----- Control Percent May-21-20	Agrass ----- Control Percent May-21-20	
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6	7	8	9
1 NTC			0.0 b	0.0 c	0.0 b	0.0 c	0.0 b	0.0 b	0.0 d	0.0 e	0.0 d
2 HARNESS MSO AMS	32.0 oz/a A 0.5 % v/v A 3.0 lb/a A		1.7 ab	16.7 a	0.0 b	0.0 c	0.0 b	0.0 b	78.3 b	38.3 d	65.0 c
3 DUAL II MAGNUM MSO AMS	24.0 oz/a A 0.5 % v/v A 3.0 lb/a A		3.3 ab	15.0 a	0.0 b	0.0 c	0.0 b	0.0 b	63.3 c	65.0 c	60.0 c
4 SINATE NIS AMS	28.0 oz/a A 0.25 % v/v A 3.0 lb/a A		1.7 ab	0.0 c	99.0 a	94.3 a	99.0 a	3.3 a	97.7 a	94.3 a	88.3 b
5 SINATE MSO AMS	28.0 oz/a A 0.5 % v/v A 3.0 lb/a A		3.3 ab	0.0 c	99.0 a	89.7 a	99.0 a	0.0 b	94.3 a	91.3 a	86.3 b
6 SINATE HARNESS NIS AMS	28.0 oz/a A 32.0 oz/a A 0.25 % v/v A 3.0 lb/a A		1.7 ab	10.0 b	99.0 a	94.3 a	99.0 a	0.0 b	99.0 a	86.3 ab	97.7 a
7 SINATE HARNESS MSO AMS	28.0 oz/a A 32.0 oz/a A 0.5 % v/v A 3.0 lb/a A		5.0 a	16.7 a	99.0 a	96.3 a	99.0 a	0.0 b	99.0 a	96.3 a	99.0 a
8 SINATE DUAL II MAGNUM NIS AMS	28.0 oz/a A 24.0 oz/a A 0.25 % v/v A 3.0 lb/a A		0.0 b	3.3 c	99.0 a	88.3 a	99.0 a	0.0 b	99.0 a	88.0 ab	99.0 a
9 SINATE DUAL II MAGNUM MSO AMS	28.0 oz/a A 24.0 oz/a A 0.5 % v/v A 3.0 lb/a A		3.3 ab	16.7 a	99.0 a	97.7 a	99.0 a	0.0 b	99.0 a	93.0 a	96.0 a
10 LIBERTY AMS	32.0 oz/a A 3.0 lb/a A		0.0 b	0.0 c	99.0 a	45.0 b	99.0 a	0.0 b	93.3 a	70.0 bc	85.0 b
11 ROUNDUP P-MAX II ATRAZINE PROWL H20	32.0 oz/a A 64.0 oz/a A 32.0 oz/a A		5.0 a	0.0 c	99.0 a	99.0 a	99.0 a	0.0 b	99.0 a	99.0 a	97.7 a
12 NTC			0.0 b	0.0 c	0.0 b	0.0 c	0.0 b	0.0 b	0.0 d	0.0 e	0.0 d
LSD P=.10			3.91	4.12	.	15.84	.	2.34	8.96	18.95	6.78
Standard Deviation			2.79	2.94	0.00	11.29	0.00	1.67	6.39	13.51	4.83
CV			133.76	45.05	0.0	19.23	0.0	600.0	8.32	19.74	6.64
Grand Mean			2.08	6.53	66.00	58.72	66.00	0.28	76.83	68.47	72.83
Levene's F			0.773	1.662	0.00	1.206	0.00		1.923	1.291	1.322
Levene's Prob(F)			0.663	0.144	0.00*	0.335	0.00*		0.087	0.288	0.272
Replicate F			1.878	1.526	0.000	0.484	0.000	1.000	0.514	0.217	0.396
Replicate Prob(F)			0.1766	0.2396	1.0000	0.6230	1.0000	0.3840	0.6053	0.8064	0.6778
Treatment F			1.390	20.752	0.000	48.968	0.000	1.000	103.147	21.655	169.736
Treatment Prob(F)			0.2452	0.0001	1.0000	0.0001	1.0000	0.4767	0.0001	0.0001	0.0001

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

Could not calculate LSD (% mean diff) for columns 3,5 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.		Amapa ----- Control Percent Jun-15-20	AGRASS ----- Control Percent Jun-15-20	Rapra ----- Control Percent Jun-15-20	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-26-20 120 DA-A	----- ZEAMA PLOT - YIELD BU/A Aug-26-20 120 DA-A TY1 - 1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	10	11	12	13
1 NTC			0.0 d	0.0 e	0.0 e	18.0 c
2 HARNESS	32.0 oz/a	A	38.3 c	50.0 d	0.0 e	27.0 b
MSO	0.5 % v/v	A				
AMS	3.0 lb/a	A				
3 DUAL II MAGNUM	24.0 oz/a	A	38.3 c	50.0 d	33.3 d	29.0 ab
MSO	0.5 % v/v	A				
AMS	3.0 lb/a	A				
4 SINATE	28.0 oz/a	A	78.3 ab	71.7 bc	75.0 abc	29.0 ab
NIS	0.25 % v/v	A				
AMS	3.0 lb/a	A				
5 SINATE	28.0 oz/a	A	96.3 ab	76.7 b	63.3 bc	32.3 a
MSO	0.5 % v/v	A				
AMS	3.0 lb/a	A				
6 SINATE	28.0 oz/a	A	97.7 ab	88.3 a	75.0 abc	30.7 ab
HARNES	32.0 oz/a	A				
NIS	0.25 % v/v	A				
AMS	3.0 lb/a	A				
7 SINATE	28.0 oz/a	A	96.3 ab	88.3 a	86.7 ab	31.7 a
HARNES	32.0 oz/a	A				
MSO	0.5 % v/v	A				
AMS	3.0 lb/a	A				
8 SINATE	28.0 oz/a	A	94.3 ab	88.3 a	74.7 abc	32.3 a
DUAL II MAGNUM	24.0 oz/a	A				
NIS	0.25 % v/v	A				
AMS	3.0 lb/a	A				
9 SINATE	28.0 oz/a	A	96.3 ab	91.7 a	84.7 ab	31.7 a
DUAL II MAGNUM	24.0 oz/a	A				
MSO	0.5 % v/v	A				
AMS	3.0 lb/a	A				
10 LIBERTY	32.0 oz/a	A	76.7 b	63.3 c	46.7 cd	30.7 ab
AMS	3.0 lb/a	A				
11 ROUNDUP P-MAX II	32.0 oz/a	A	99.0 a	93.0 a	96.3 a	28.3 ab
ATRAZINE	64.0 oz/a	A				
PROWL H20	32.0 oz/a	A				
12 NTC			0.0 d	0.0 e	0.0 e	19.0 c
LSD P=.10			21.80	10.72	29.85	4.21
Standard Deviation			15.55	7.65	21.29	3.00
CV			22.99	12.06	40.19	10.6
Grand Mean			67.64	63.44	52.97	28.31
Levene's F			1.356	0.702	1.088	1.103
Levene's Prob(F)			0.256	0.724	0.411	0.40
Replicate F			0.764	0.285	0.141	4.930
Replicate Prob(F)			0.4779	0.7545	0.8697	0.0170
Treatment F			18.191	56.784	8.672	7.931
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Could not calculate LSD (% mean diff) for columns 3,5 because error mean square = 0.

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Weed Code Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L. Part Rated Leaf = LEAF / FOLIAGE Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) PRM Data Type TY1 = 5.095501*[13]											
Weed Code				----- Zeama	----- Zeama Leaf -	Amapa -----	Rapra -----	Agrass -----	----- Zeama Plant -	Amapa -----	Rapra -----
Crop Code				Stunting	Necrosis	Control	Control	Control	Stunting	Control	Control
Part Rated				Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type				May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-21-20	May-21-20	May-21-20
Rating Unit											
Rating Date											
Trt-Eval Interval											
PRM Data Type											
# Subsamples, Dec.											
Trt Treatment	Rate	Appl									
No. Name	Rate Unit	Code Plot		1	2	3	4	5	6	7	8
1 NTC		101		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		205		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		303		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 HARNESS	32.0 oz/a	A 102		0.0	10.0	0.0	0.0	0.0	0.0	65.0	0.0
MSO	0.5 % v/v	A 203		0.0	15.0	0.0	0.0	0.0	0.0	75.0	65.0
AMS	3.0 lb/a	A 308		5.0	25.0	0.0	0.0	0.0	0.0	95.0	50.0
		Mean =		1.7	16.7	0.0	0.0	0.0	0.0	78.3	38.3
3 DUAL II MAGNUM	24.0 oz/a	A 103		0.0	10.0	0.0	0.0	0.0	0.0	65.0	65.0
MSO	0.5 % v/v	A 210		5.0	15.0	0.0	0.0	0.0	0.0	75.0	65.0
AMS	3.0 lb/a	A 307		5.0	20.0	0.0	0.0	0.0	0.0	50.0	65.0
		Mean =		3.3	15.0	0.0	0.0	0.0	0.0	63.3	65.0
4 SINATE	28.0 oz/a	A 104		0.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
NIS	0.25 % v/v	A 211		5.0	0.0	99.0	99.0	99.0	10.0	95.0	99.0
AMS	3.0 lb/a	A 312		0.0	0.0	99.0	85.0	99.0	0.0	99.0	85.0
		Mean =		1.7	0.0	99.0	94.3	99.0	3.3	97.7	94.3
5 SINATE	28.0 oz/a	A 105		5.0	0.0	99.0	85.0	99.0	0.0	85.0	90.0
MSO	0.5 % v/v	A 209		0.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
AMS	3.0 lb/a	A 302		5.0	0.0	99.0	85.0	99.0	0.0	99.0	85.0
		Mean =		3.3	0.0	99.0	89.7	99.0	0.0	94.3	91.3
6 SINATE	28.0 oz/a	A 106		0.0	10.0	99.0	99.0	99.0	0.0	99.0	95.0
HARNESS	32.0 oz/a	A 201		0.0	10.0	99.0	85.0	99.0	0.0	99.0	65.0
NIS	0.25 % v/v	A 304		5.0	10.0	99.0	99.0	99.0	0.0	99.0	99.0
AMS	3.0 lb/a	A									
		Mean =		1.7	10.0	99.0	94.3	99.0	0.0	99.0	86.3
7 SINATE	28.0 oz/a	A 107		5.0	15.0	99.0	95.0	99.0	0.0	99.0	95.0
HARNESS	32.0 oz/a	A 212		0.0	20.0	99.0	95.0	99.0	0.0	99.0	95.0
MSO	0.5 % v/v	A 310		10.0	15.0	99.0	99.0	99.0	0.0	99.0	99.0
AMS	3.0 lb/a	A									
		Mean =		5.0	16.7	99.0	96.3	99.0	0.0	99.0	96.3
8 SINATE	28.0 oz/a	A 108		0.0	5.0	99.0	85.0	99.0	0.0	99.0	90.0
DUAL II MAGNUM	24.0 oz/a	A 206		0.0	5.0	99.0	95.0	99.0	0.0	99.0	99.0
NIS	0.25 % v/v	A 301		0.0	0.0	99.0	85.0	99.0	0.0	99.0	75.0
AMS	3.0 lb/a	A									
		Mean =		0.0	3.3	99.0	88.3	99.0	0.0	99.0	88.0
9 SINATE	28.0 oz/a	A 109		0.0	15.0	99.0	95.0	99.0	0.0	99.0	95.0
DUAL II MAGNUM	24.0 oz/a	A 207		5.0	15.0	99.0	99.0	99.0	0.0	99.0	85.0
MSO	0.5 % v/v	A 309		5.0	20.0	99.0	99.0	99.0	0.0	99.0	99.0
AMS	3.0 lb/a	A									
		Mean =		3.3	16.7	99.0	97.7	99.0	0.0	99.0	93.0
10 LIBERTY	32.0 oz/a	A 110		0.0	0.0	99.0	30.0	99.0	0.0	95.0	70.0
AMS	3.0 lb/a	A 202		0.0	0.0	99.0	20.0	99.0	0.0	95.0	55.0
		306		0.0	0.0	99.0	85.0	99.0	0.0	90.0	85.0
		Mean =		0.0	0.0	99.0	45.0	99.0	0.0	93.3	70.0
11 ROUNDUP P-MAX II	32.0 oz/a	A 111		10.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
ATRAZINE	64.0 oz/a	A 208		0.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
PROWL H20	32.0 oz/a	A 311		5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0
		Mean =		5.0	0.0	99.0	99.0	99.0	0.0	99.0	99.0

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SINATE + WSSA GROUP#15 TANK-MIXES FOR WEED CONTROL IN FIELD CORN Trial ID: CN-08BB-20 Study Dir.: MASON NEWARK Location: PONDER FARM Investigator: Eric P. Prostko									
Weed Code	-----	-----	Amapa	Rapra	Agrass	-----	Amapa	Rapra	
Crop Code	Zeama	Zeama	-----	-----	-----	Zeama	-----	-----	
Part Rated		Leaf -				Plant -			
Rating Data Type	Stunting	Necrosis	Control	Control	Control	Stunting	Control	Control	
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
Rating Date	May-5-20	May-5-20	May-5-20	May-5-20	May-5-20	May-21-20	May-21-20	May-21-20	
Trt-Eval Interval									
PRM Data Type									
# Subsamples, Dec.									
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6	7
12 NTC	112		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	204		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	305		0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =		0.0	0.0	0.0	0.0	0.0	0.0	0.0

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SINATE + WSSA GROUP#15 TANK-MIXES FOR
WEED CONTROL IN FIELD CORN
Trial ID: CN-08BB-20 Study Dir.: MASON NEWARK
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code				Agrass	Amapa	AGRASS	Rapra	-----	-----
Crop Code				-----	-----	-----	-----	-----	-----
Part Rated									
Rating Data Type				Control	Control	Control	Control	ZEAMA	ZEAMA
Rating Unit				Percent	Percent	Percent	Percent	PLOT -	PLOT -
Rating Date				May-21-20	Jun-15-20	Jun-15-20	Jun-15-20	YIELD	YIELD
Trt-Eval Interval								LBS/PLOT	BU/A
PRM Data Type								Aug-26-20	Aug-26-20
# Subsamples, Dec.								120 DA-A	120 DA-A
								TY1	
								- 1	
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code Plot		9	10	11	12	13	14
1 NTC		101		0.0	0.0	0.0	0.0	12.0	61.1
		205		0.0	0.0	0.0	0.0	15.0	76.4
		303		0.0	0.0	0.0	0.0	27.0	137.6
		Mean =		0.0	0.0	0.0	0.0	18.0	91.7
2 HARNESS	32.0 oz/a	A 102		65.0	0.0	50.0	0.0	22.0	112.1
MSO	0.5 % v/v	A 203		65.0	50.0	50.0	0.0	27.0	137.6
AMS	3.0 lb/a	A 308		65.0	65.0	50.0	0.0	32.0	163.1
		Mean =		65.0	38.3	50.0	0.0	27.0	137.6
3 DUAL II MAGNUM	24.0 oz/a	A 103		65.0	65.0	50.0	0.0	28.0	142.7
MSO	0.5 % v/v	A 210		65.0	50.0	50.0	50.0	30.0	152.9
AMS	3.0 lb/a	A 307		50.0	0.0	50.0	50.0	29.0	147.8
		Mean =		60.0	38.3	50.0	33.3	29.0	147.8
4 SINATE	28.0 oz/a	A 104		90.0	95.0	90.0	85.0	29.0	147.8
NIS	0.25 % v/v	A 211		85.0	75.0	60.0	90.0	29.0	147.8
AMS	3.0 lb/a	A 312		90.0	65.0	65.0	50.0	29.0	147.8
		Mean =		88.3	78.3	71.7	75.0	29.0	147.8
5 SINATE	28.0 oz/a	A 105		75.0	95.0	60.0	65.0	28.0	142.7
MSO	0.5 % v/v	A 209		85.0	99.0	85.0	75.0	32.0	163.1
AMS	3.0 lb/a	A 302		99.0	95.0	85.0	50.0	37.0	188.5
		Mean =		86.3	96.3	76.7	63.3	32.3	164.8
6 SINATE	28.0 oz/a	A 106		99.0	99.0	95.0	90.0	31.0	158.0
HARNESS	32.0 oz/a	A 201		95.0	95.0	85.0	50.0	27.0	137.6
NIS	0.25 % v/v	A 304		99.0	99.0	85.0	85.0	34.0	173.2
AMS	3.0 lb/a	A							
		Mean =		97.7	97.7	88.3	75.0	30.7	156.3
7 SINATE	28.0 oz/a	A 107		99.0	95.0	85.0	85.0	33.0	168.2
HARNESS	32.0 oz/a	A 212		99.0	99.0	85.0	85.0	31.0	158.0
MSO	0.5 % v/v	A 310		99.0	95.0	95.0	90.0	31.0	158.0
AMS	3.0 lb/a	A							
		Mean =		99.0	96.3	88.3	86.7	31.7	161.4
8 SINATE	28.0 oz/a	A 108		99.0	99.0	85.0	75.0	33.0	168.2
DUAL II MAGNUM	24.0 oz/a	A 206		99.0	99.0	95.0	99.0	30.0	152.9
NIS	0.25 % v/v	A 301		99.0	85.0	85.0	50.0	34.0	173.2
AMS	3.0 lb/a	A							
		Mean =		99.0	94.3	88.3	74.7	32.3	164.8
9 SINATE	28.0 oz/a	A 109		99.0	99.0	95.0	99.0	31.0	158.0
DUAL II MAGNUM	24.0 oz/a	A 207		90.0	95.0	85.0	60.0	30.0	152.9
MSO	0.5 % v/v	A 309		99.0	95.0	95.0	95.0	34.0	173.2
AMS	3.0 lb/a	A							
		Mean =		96.0	96.3	91.7	84.7	31.7	161.4
10 LIBERTY	32.0 oz/a	A 110		85.0	85.0	65.0	50.0	32.0	163.1
AMS	3.0 lb/a	A 202		85.0	85.0	65.0	0.0	29.0	147.8
		306		85.0	60.0	60.0	90.0	31.0	158.0
		Mean =		85.0	76.7	63.3	46.7	30.7	156.3
11 ROUNDUP P-MAX II	32.0 oz/a	A 111		99.0	99.0	95.0	99.0	28.0	142.7
ATRAZINE	64.0 oz/a	A 208		95.0	99.0	85.0	95.0	28.0	142.7
PROWL H20	32.0 oz/a	A 311		99.0	99.0	99.0	95.0	29.0	147.8
		Mean =		97.7	99.0	93.0	96.3	28.3	144.4

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SINATE + WSSA GROUP#15 TANK-MIXES FOR WEED CONTROL IN FIELD CORN Trial ID: CN-08BB-20 Study Dir.: MASON NEWARK Location: PONDER FARM Investigator: Eric P. Prostko							
Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval PRM Data Type # Subsamples, Dec.	Agrass ----- Control Percent May-21-20	Amapa ----- Control Percent Jun-15-20	AGRASS ----- Control Percent Jun-15-20	Rapra ----- Control Percent Jun-15-20	----- ZEAMA PLOT - YIELD LBS/PLOT Aug-26-20 120 DA-A	----- ZEAMA PLOT - YIELD BU/A Aug-26-20 120 DA-A TY1 - 1	
Trt Treatment No. Name Rate Unit Code Plot	9	10	11	12	13	14	
12 NTC	112	0.0	0.0	0.0	0.0	16.0	81.5
	204	0.0	0.0	0.0	0.0	22.0	112.1
	305	0.0	0.0	0.0	0.0	19.0	96.8
Mean =	0.0	0.0	0.0	0.0	0.0	19.0	96.8

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SINATE + WSSA GROUP#15 TANK-MIXES FOR WEED CONTROL IN FIELD CORN Trial ID: CN-08BB-20 Study Dir.: MASON NEWARK Location: PONDER FARM Investigator: Eric P. Prostko	
<u>Weed Code</u> Amapa = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS. Rapra = RADISH, WILD / RAPHANUS RAPHANISTRUM L. <u>Part Rated</u> Leaf = LEAF / FOLIAGE Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf) <u>PRM Data Type</u> TY1 = 5.095501*[13]	