University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	HARNESS XTRA 5.6L	5.6	#/G	L	2.4	qt/a	PRE	A	59.99 mL/mx	1440.0 mL	120	204	306
2	HARNESS XTRA 5.6L	5.6	#/G	L	2.0	qt/a	PRE	A	49.99 mL/mx	1447.7 mL	102	216	311
	BALANCE FLEXX	2	#/G	SC	3.0	oz/a	PRE	A	2.343 mL/mx				
3	HARNESS XTRA 5.6L	5.6	#/G	L	2.0	qt/a	PRE	A	49.99 mL/mx	1447.4 mL	103	207	304
	CORVUS	2.63	#/G	SC	3.3	oz/a	PRE	A	2.578 mL/mx				
4	CORVUS	2.63	#/G	SC	4.5	oz/a	PRE	A	3.515 mL/mx	1471.5 mL	104	208	303
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
5	CORVUS	2.63	#/G	SC	4.5	oz/a	PRE	A	3.515 mL/mx	1456.5 mL	105	202	301
	HARNESS XTRA 5.6L	5.6	#/G	L	1.6	qt/a	PRE	A	40.0 mL/mx				
6	HARNESS MAX	3.85	#/G AI	L	2.0	qt/a	PRE	A	49.99 mL/mx	1425.0 mL	106	210	317
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
7	ACURON	3.44	#/G AI	SC	2.5	qt/a	PRE	A	62.49 mL/mx	1437.5 mL	107	214	313
8	RESICORE	3.35	#/G AI	EC	2.5	qt/a	PRE	A	62.49 mL/mx	1412.5 mL	108	209	316
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
9	HARNESS MAX	3.85	#/G AI	L	2.0	qt/a	PRE	A	49.99 mL/mx	1425.0 mL	109	212	308
	ATRAZINE	4	#/G	SC	32.0	oz/a	PRE	A	25.0 mL/mx				
	DIFLEXX	4	#/G	SC	8.0	oz/a	POST	C	6.249 mL/mx	1441.3 mL			
	METHYLATED SEED OIL	100	%	AD	1	% v/v	POST	C	15.0 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	POST	C	37.5 mL/mx				
10	HARNESS MAX	3.85	#/G AI	L	2.0	qt/a	PRE	A	49.99 mL/mx	1425.0 mL	110	215	314
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
	DIFLEXX DUO	2.13	#/G AI	SC	24.0	oz/a	POST	C	18.75 mL/mx	1428.8 mL			
	METHYLATED SEED OIL	100	%	AD	1	% v/v	POST	C	15.0 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	POST	C	37.5 mL/mx				
11	HARNESS MAX	3.85	#/G AI	L	2.0	qt/a	PRE	A	49.99 mL/mx	1425.0 mL	111	205	319
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
	CAPRENO	3.45	%	SC	3.0	oz/a	POST	C	2.343 mL/mx	1456.4 mL			
	NI SURFACTANT	100	%	AD	0.25	% v/v	POST	C	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	POST	C	37.5 mL/mx				
12	CORVUS	2.63	#/G	SC	3.3	oz/a	PRE	A	2.578 mL/mx	1472.4 mL	112	219	312
	ATRAZINE	4	#/G	L	32.0	oz/a	PRE	A	25.0 mL/mx				
	HARNESS MAX	3.85	#/G AI	L	1.75	qt/a	EPOST	B	43.75 mL/mx	1415 mL			
	NI SURFACTANT	100	%	AD	0.25	% v/v	EPOST	B	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	EPOST	B	37.5 mL/mx				
13	HARNESS XTRA 5.6L	5.6	#/G	L	2.0	qt/a	PRE	A	49.99 mL/mx	1447.7 mL	113	203	305
	BALANCE FLEXX	2	#/G	SC	3.0	oz/a	PRE	A	2.343 mL/mx				
	DIFLEXX	4	#/G	SC	8.0	oz/a	POST	C	6.249 mL/mx	1441.3 mL			
	METHYLATED SEED OIL	100	%	AD	1	% v/v	POST	C	15.0 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	POST	C	37.5 mL/mx				
14	HARNESS XTRA 5.6L	5.6	#/G	L	2.0	qt/a	PRE	A	49.99 mL/mx	1447.7 mL	114	217	318
	BALANCE FLEXX	2	#/G	SC	3.0	oz/a	PRE	A	2.343 mL/mx				
	CAPRENO	3.45	%	SC	3.0	oz/a	POST	C	2.343 mL/mx	1456.4 mL			
	NI SURFACTANT	100	%	AD	0.25	% v/v	POST	C	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	POST	C	37.5 mL/mx				
15	HARNESS MAX	3.85	#/G AI	L	40.0	oz/a	PRE	A	31.25 mL/mx	1468.8 mL	115	211	320
	HARNESS MAX	3.85	#/G AI	L	40.0	oz/a	EPOST	B	31.25 mL/mx	1427.5 mL			
	NI SURFACTANT	100	%	AD	0.25	% v/v	EPOST	B	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	EPOST	B	37.5 mL/mx				
16	CAPRENO	3.45	%	SC	3.0	oz/a	EPOST	B	2.343 mL/mx	1456.4 mL	116	220	310
	NI SURFACTANT	100	%	AD	0.25	% v/v	EPOST	B	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	EPOST	B	37.5 mL/mx				

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Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
17	HALEX GT	4.389	#/G AI	SL	58.0	oz/a	EPOST	B	45.31 mL/mx	1388.4 mL	117	201	302
	ATRAZINE	4	#/G	L	32.0	oz/a	EPOST	B	25.0 mL/mx				
	NI SURFACTANT	100	%	AD	0.25	% v/v	EPOST	B	3.75 mL/mx				
	N-PAK AMS LIQUID	34	%	SL	2.5	% v/v	EPOST	B	37.5 mL/mx				
18	ROUNDUP PMAX	5.5		SL	32.0	oz/a	EPOST	B	25.0 mL/mx	1400.0 mL	118	213	315
	ATRAZINE	4		L	64.0	oz/a	EPOST	B	49.99 mL/mx				
	PROWL H20	3.8		SC	32.0	oz/a	EPOST	B	25.0 mL/mx				
19	NTC									-	119	206	307
20	NTC									-	101	218	309

Sort Order: Treatment

Trial Comments

NIS = INDUCE (HELENA)
MSO = MES-100 (DREXEL)

HARNESS XTRA 5.6L - ACETOCHLOR (3.1 LB/GAL) + ATRAZINE (2.5 LBS/GAL)
CORVUS - ISOXAFLUTOLE (1.88 LBS/GAL)+ THIENCARBAZONE (0.75 LBS/GAL)
HARNESS MAX - ACETOCHLOR (3.52 LBS/GAL) + MESOTRIONE (0.33 LBS/GAL)
ACURON - S-MOC (2.14 LBS/GAL))+ ATRAZINE (1.0 LBS/GAL) + MESOTRIONE (0.24 LBS/GAL)+ BICYCLOPYRONE (0.06 LBS/GAL)
RESICORE - ACETOCHLOR (2.8 LBS/GAL) + MESOTRIONE (0.30 LBS/GAL) + CLOPYRALID (0.19 LBS/GAL)
CAPRENO - TEMBOTRIONE (2.88 LBS/GAL)+ THIENCARBAZONE (0.57 LBS/GAL)
DEGREE XTRA - ACETOCHLOR (2.7 LBS/GAL) + ATRAZINE (1.34 LBS/GAL)
HALEX GT = S-MOC (2.09 LBS/GAL) + MESOTRIONE (0.209 LBS/GAL) + GLYPHOSATE (2.09 LBS/GAL)
DIFLEXX DUO - DICAMBA (1.86 LBS/GAL) + TEMBOTRIONE (0.27 LBS/GAL)

APRIL 3 OBSERVATION: TRTS 4 (CORVUS + ATRAZINE), 8 (RESICORE + ATRAZINE), 10/11 (HARNESS MAX + ATRAZINE) WERE DIFFICULT TO GET OUT OF SPRAY BOTTLE DURING IN-FIELD WASHING? A POTENTIAL MIXING PROBLEM?

TREATMENT # 16 WAS ORIGINALLY TO INCLUDE DEGREE XTRA IN EPOST APPLICATION BUT COOPERATOR (PROSTKO) DID NOT HAVE ANY AT THE TIME OF APPLICATION OR HE COULD NOT FIND IT???.

HARVEST MOISTURE: 17.28%
YIELDS ADJUSTED TO 15.5%

SUMMARY:

1) PRE APPLICATIONS OF CORVUS CAUSED SIGNIFICANT CORN STUNTING.

2) ON MAY 14 (43 DAP) ALL TREATMENTS PROVIDED 99% CONTROL OF WILD RADISH EXCEPT THE FOLLOWING:

HARNESS XTRA @ 2.4 QT/A - PRE (88.3%)

3) ON JUNE 11 (71 DAP), ALL TREATMENTS PROVIDED AT LEAST 97% CONTROL OF PALMER AMARANTH.

4) ON JUNE 11 (71 DAP), ALL TREATMENTS PROVIDED AT LEAST 93% CONTROL OF ANNUAL GRASSES EXCEPT THE FOLLOWING:

HARNESS XTRA + CORVUS - PRE (86.3%)
CORVUS + ATRAZINE - PRE (88.3%)
ACURON - PRE (86.7%)
HARNESS MAX + ATRAZINE (PRE) FB DIFLEXX + MSO + N-PAK (POST) (86.3%)
CAPRENO + NIS + N-PAK (POST) (86.7%)

5) ALL HERBICIDE TREATMENTS RESULTED IN YIELDS EQUIVALENT TO THE CURRENT STANDARD OF ROUNDUP + ATRAZINE + PROWL (EPOST) EXCEPT THE FOLLOWING WHICH HAD LOWER YIELDS:

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ACURON - PRE
HARNESS MAX + ATRAZINE (PRE) FB DIFLEXX + MSO + N-PAK (POST)
HARNESS MAX + ATRAZINE (PRE) FB DIFLEXX DUO + MSO + N-PAK (POST)
HARNESS MAX + ATRAZINE (PRE) FB CAPRENO + NIS + N-PAK (POST)

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Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: David J Mayonado (2019-01-24-0 **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **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: The objectives of this study are to increase internal knowledge of the combined Monsanto and Bayer corn porfolio as well as gain exposure and support of the academic community to Bayer corn product offerings and potential integrated weed control systems.

Conclusions:

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS TX PANICUM;CROW;CRAB;GOOSE
Weed 3. RAPRA WILD RADISH **4.** SPRAR CORN SPURRY
Weed 5. RCHSC FLORIDA PUSLEY **6.** ARAHY PEANUT

Crop 1: ZEAMA FIELD CORN **Variety:** PIONEER 1870YHR **Planting Date:** Apr-1-19
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:** RACOBL
Trial Initiation Comments: 800 LBS/A 5-15-30 PPLNT; 37 GPA 28-0-0-5 (125 LBS N/A) ON APRIL 22; 46 GPA 24-0-0-3 (128 LBS N/A) APPLIED MAY 2; AXILO MIX 5 @ 2

Previous:	Crops	Pesticides	Year
1.	PEANUT	2018	____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.78 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.0 **CEC:** 3.3 **Soil Name:** TIFTON **Fertility Level:** GOOD

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MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-4-19		0.25	IN	SPRINKLER - LATERAL MOVE		
2.	Apr-4-19		0.02	IN	RAINFALL		
3.	Apr-5-19		0.02	IN	RANFALL		
4.	Apr-6-19		0.21	IN	RAINFALL		
5.	Apr-9-19		0.17	IN	RAINFALL		
6.	Apr-11-19		0.50	IN	SPRINKLER - LATERAL MOVE		
7.	Apr-14-19		0.83	IN	RAINFALL		
8.	Apr-19-19		1.43	IN	RAINFALL		
9.	Apr-25-19		0.5	IN	SPRINKLER - LATERAL MOVE		
10.	Apr-25-19		0.05	IN	RAINFALL		
11.	Apr-26-19		0.03	IN	RAINFALL		
12.	Apr-29-19		0.5	IN	SPRINKLER - LATERAL MOVE		
13.	May-6-19		0.75	IN	SPRINKLER - LATERAL MOVE		
14.	May-9-19		0.195	IN	RAINFALL		
15.	May-10-19		0.3	IN	SPRINKLER - LATERAL MOVE		
16.	May-10-19		0.11	IN	RAINFALL		
17.	May-11-19		0.65	IN	RAINFALL		
18.	May-12-19		0.27	IN	RAINFALL		
19.	May-16-19		0.5	IN	SPRINKLER - LATERAL MOVE		
20.	May-17-19		0.62	IN	RAINFALL		
21.	May-21-19		0.5	IN	SPRINKLER - LATERAL MOVE		
22.	May-23-19		0.75	IN	SPRINKLER - LATERAL MOVE		
23.	May-24-19		0.75	IN	SPRINKLER - LATERAL MOVE		
24.	May-27-19		0.75	IN	SPRINKLER - LATERAL MOVE		

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

APPLICATION DESCRIPTION

	A		B		C		D	E	F
Application Date:	Apr-3-19		Apr-22-19		Apr-30-19				
Time of Day:	9:00 AM		8:15 AM		7:45 AM				
Application Method:	BROADCAST		BROADCAST		BROADCAST				
Application Timing:	PRE		EPOST		POST				
Applic. Placement:	SOIL		FOLIAGE		FOLIAGE				
Air Temp., Unit:	52	F	53	F	61	F			
% Relative Humidity:	88		87		95				
Wind Velocity, Unit:	1	MPH	0	MPH	0	MPH			
Dew Presence (Y/N):	N		Y		Y				
Water Hardness:	--								
Soil Temp., Unit:	55	F	59	F	68	F			
Soil Moisture:	OPTIMUM		OPTIMUM		OPTIMUM				
% Cloud Cover:	0		0		0				

CROP STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Crop 1	**Stage:** ZEAMA		7"T	12"T			
	Stage Scale:		V4	V6			
	Height, Unit:						

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WEED STAGE AT EACH APPLICATION

		A	B	C	D	E	F
Weed 1	**Stage:** AMAPA		1-2"T				
Stage Scale:			4-6 LF				
Density, Unit:							
Weed 2	**Stage:** AGRASS		1-2"T				
Stage Scale:			2-3 LF				
Density, Unit:							
Weed 3	**Stage:** RAPRA		2"T				
Stage Scale:			4-6 LF				
Density, Unit:							
Weed 4	**Stage:** SPRAR		2"T				
Stage Scale:							
Density, Unit:							
Weed 5	**Stage:** RCHSC		0.5"T				
Stage Scale:			2 LF				
Density, Unit:							
Weed 6	**Stage:** ARAHY		2"T	2-3"T			
Stage Scale:			4-6 LF				
Density, Unit:							

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	BACKPACK			
Operating Pressure:	28	32	32			
Nozzle Type:	AIXR	AIXR	AIXR			
Nozzle Size:	11002	11002	11002			
Nozzle Spacing, Unit:	15 IN	20 IN	20 IN			
Nozzles/Row:	2					
Band Width, Unit:						
Boom Length, Unit:	60 IN	60 IN	60 IN			
Boom Height, Unit:	20 IN	20 IN	20 IN			
Ground Speed, Unit:	3.5 MPH	3.5 MPH	3.5 MPH			
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER	WATER	WATER			
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA			
Spray pH:						
Propellant:	CO2	CO2	CO2			
Tank Mix (Y/N):	_	_	_	_	_	_

Trt No	**Treatment Application Comment**
__	

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
	Weed Code							----- ZEAMA	----- ZEAMA	AMAPA -----	AGRASS -----	RAPRA -----
	Crop Code											
	Part Rated											
	Rating Data Type							Injury	Injury	Control	Control	Control
	Rating Unit							PERCENT	Percent	Percent	Percent	Percent
	Rating Date							Apr-10-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-16-19
	PRM Data Type											
	# Subsamples, Dec.											
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	3.3 ab	6.7 b	99.0 a	99.0 a	99.0 a
	CORVUS	2.63	SC	3.3	oz/a	PRE	A					
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	5.0 a	11.7 a	99.0 a	97.7 b	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	3.3 ab	10.0 a	99.0 a	99.0 a	99.0 a
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A					
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	1.7 bc	0.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	SC	32.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	1.7 bc	5.0 b	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 c	1.7 c	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns:Average=8,9,10
Could not calculate LSD (% mean diff) for columns 3,5,8 because error mean square = 0.

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
	Weed Code							-----	-----	AMAPA	AGRASS	RAPRA
	Crop Code							ZEAMA	ZEAMA	-----	-----	-----
	Part Rated											
	Rating Data Type							Injury	Injury	Control	Control	Control
	Rating Unit							PERCENT	Percent	Percent	Percent	Percent
	Rating Date							Apr-10-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-16-19
	PRM Data Type											
	# Subsamples, Dec.											
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	0.0 c	0.0 c	99.0 a	99.0 a	99.0 a
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
	ATRAZINE	4	L	32.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
	ATRAZINE	4	L	64.0	oz/a	EPOST	B					
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B					
19	NTC							0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
20	NTC							0.0 c	0.0 c	0.0 b	0.0 c	0.0 b
	LSD P=.10							1.72	2.64	.	0.71	.
	Standard Deviation							1.25	1.92	0.00	0.52	0.00
	CV							166.37	109.68	0.0	0.7	0.0
	Grand Mean							0.75	1.75	74.25	74.18	74.25
	Bartlett's X2							0.00	1.426	0.00	0.00	0.00
	P(Bartlett's X2)							.	0.84	.	.	.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
Missing data estimates are included in columns:Average=8,9,10
Could not calculate LSD (% mean diff) for columns 3,5,8 because error mean square = 0.

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	----- ZEAMA Stunting Percent Apr-25-19	---- ZEAMA Leafburn Percent Apr-25-19	AMAPA ----- Control Percent Apr-25-19	AGRAS ----- Control Percent Apr-25-19	RAPRA ----- Control Percent Apr-25-19
	PRM Data Type											
	# Subsamples, Dec.											
								6	7	8	9	10
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	97.7 a	97.7 b
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	11.7 b	0.0 d	99.0 a	99.0 a	99.0 a
	CORVUS	2.63	SC	3.3	oz/a	PRE	A					
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	23.3 a	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	20.0 a	0.0 d	99.0 a	99.0 a	99.0 a
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A					
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	3.3 cd	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	97.7 a	99.0 a
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	SC	32.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	97.7 a	97.7 b
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	6.7 c	0.0 d	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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Missing data estimates are included in columns:Average=8,9,10
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Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	----- ZEAMA Stunting Percent Apr-25-19 6	---- ZEAMA Leafburn Percent Apr-25-19 7	AMAPA ----- Control Percent Apr-25-19 8	AGRAS ----- Control Percent Apr-25-19 9	RAPRA ----- Control Percent Apr-25-19 10
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	0.0 d	0.0 d	99.0 a	99.0 a	99.0 a
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	0.0 d	15.0 a			
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	0.0 d	5.0 c	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	32.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	0.0 d	11.7 b			
	ATRAZINE	4	L	64.0	oz/a	EPOST	B					
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B					
19	NTC							0.0 d	0.0 d	0.0 b	0.0 b	0.0 c
20	NTC							0.0 d	0.0 d	0.0 b	0.0 b	0.0 c
	LSD P=.10							4.50	2.83	.	1.34	1.11
	Standard Deviation							3.27	2.06	0.00	0.97	0.81
	CV							100.66	129.93	0.0	1.11	0.92
	Grand Mean							3.25	1.58	88.00	87.78	87.85
	Bartlett's X2							2.176	2.018	0.00	0.00	0.00
	P(Bartlett's X2)							0.703	0.155	.	.	.

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	11	12	13	14	15	16
	Weed Code							-----	-----	AMAPA	RAPRA	AGRASS	-----
	Crop Code							ZEAMA	ZEAMA	-----	-----	-----	ZEAMA
	Part Rated								Leaf -				
	Rating Data Type							Stunting	Necrosis	Control	Control	Control	Control
	Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent
	Rating Date							May-8-19	May-8-19	May-8-19	May-8-19	May-8-19	May-14-19
	PRM Data Type												
	# Subsamples, Dec.												
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	1.7 fg	0.0 -	99.0 a	94.3 b	97.7 ab	0.0 e
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	3.3 efg	0.0 -	99.0 a	99.0 a	96.3 abc	3.3 de
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A						
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	16.7 b	0.0 -	99.0 a	99.0 a	96.0 abc	6.7 cd
	CORVUS	2.63	SC	3.3	oz/a	PRE	A						
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	20.0 ab	0.0 -	97.7 b	99.0 a	97.7 ab	15.0 ab
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	21.7 a	0.0 -	99.0 a	99.0 a	96.0 abc	16.7 a
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A						
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	3.3 efg	0.0 -	99.0 a	99.0 a	97.7 ab	0.0 e
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	0.0 g	0.0 -	99.0 a	99.0 a	93.3 bc	0.0 e
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	1.7 fg	0.0 -	99.0 a	99.0 a	96.0 abc	0.0 e
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	6.7 de	0.0 -	99.0 a	99.0 a	96.0 abc	0.0 e
	ATRAZINE	4	SC	32.0	oz/a	PRE	A						
	DIFLEXX	4	SC	8.0	oz/a	POST	C						
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	6.7 de	0.0 -	99.0 a	99.0 a	97.7 ab	1.7 de
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C						
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	11.7 c	0.0 -	99.0 a	99.0 a	99.0 a	3.3 de
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
	CAPRENO	3.45	SC	3.0	oz/a	POST	C						
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	6.7 de	0.0 -	99.0 a	99.0 a	99.0 a	6.7 cd
	ATRAZINE	4	L	32.0	oz/a	PRE	A						
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B						
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	10.0 cd	0.0 -	99.0 a	99.0 a	96.0 abc	5.0 cde
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A						
	DIFLEXX	4	SC	8.0	oz/a	POST	C						
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	10.0 cd	0.0 -	99.0 a	99.0 a	96.0 abc	3.3 de
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A						
	CAPRENO	3.45	SC	3.0	oz/a	POST	C						
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	11	12	13	14	15	16
	Weed Code							-----	-----	AMAPA	RAPRA	AGRASS	-----
	Crop Code							ZEAMA	ZEAMA	-----	-----	-----	ZEAMA
	Part Rated								Leaf -				
	Rating Data Type							Stunting	Necrosis	Control	Control	Control	Control
	Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent
	Rating Date							May-8-19	May-8-19	May-8-19	May-8-19	May-8-19	May-14-19
	PRM Data Type												
	# Subsamples, Dec.												
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	3.3 efg	1.7 -	99.0 a	99.0 a	99.0 a	3.3 de
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B						
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	5.0 ef	0.0 -	97.7 b	99.0 a	93.0 c	10.0 bc
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	0.0 g	0.0 -	99.0 a	99.0 a	99.0 a	0.0 e
	ATRAZINE	4	L	32.0	oz/a	EPOST	B						
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	0.0 g	0.0 -	99.0 a	99.0 a	99.0 a	0.0 e
	ATRAZINE	4	L	64.0	oz/a	EPOST	B						
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B						
19	NTC							0.0 g	0.0 -	0.0 c	0.0 c	0.0 d	0.0 e
20	NTC							0.0 g	0.0 -	0.0 c	0.0 c	0.0 d	0.0 e
	LSD P=.10							4.59	0.89	0.98	2.49	4.40	6.46
	Standard Deviation							3.33	0.65	0.71	1.81	3.19	4.69
	CV							51.97	774.6	0.8	2.03	3.66	125.07
	Grand Mean							6.42	0.08	88.97	88.87	87.22	3.75
	Bartlett's X2							4.897	0.00	0.00	0.00	6.222	3.582
	P(Bartlett's X2)							0.977	.	.	.	0.904	0.937

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPA ----- Control Percent May-14-19	RAPRA ----- Control Percent May-14-19	AGRASS ----- Control Percent May-14-19	AMAPA ------ Control Percent Jun-11-19	AGRASS ------ Control Percent Jun-11-19
								17	18	19	20	21
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	99.0 a	88.3 b	96.0 abc	97.7 a	93.3 a-d
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	97.7 ab	99.0 a	94.7 a-d
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	91.0 c	99.0 a	86.3 d
	CORVUS	2.63	SC	3.3	oz/a	PRE	A					
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	94.7 b	99.0 a	96.0 abc	91.0 b	88.3 bcd
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	97.7 ab
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A					
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	97.7 ab
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	99.0 a	99.0 a	91.7 c	99.0 a	86.7 cd
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	99.0 a	99.0 a	97.7 ab	99.0 a	97.7 ab
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	96.0 abc	99.0 a	86.3 d
	ATRAZINE	4	SC	32.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	96.0 a-d
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	94.7 a-d
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	97.7 ab
	ATRAZINE	4	L	32.0	oz/a	PRE	A					
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	97.7 ab	99.0 a	96.0 a-d
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	DIFLEXX	4	SC	8.0	oz/a	POST	C					
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	97.7 ab
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A					
	CAPRENO	3.45	SC	3.0	oz/a	POST	C					
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C					

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Missing data estimates are included in columns:Average=8,9,10
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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	AMAPA ----- Control Percent May-14-19	RAPRA ----- Control Percent May-14-19	AGRASS ----- Control Percent May-14-19	AMAPA ------ Control Percent Jun-11-19	AGRASS ------ Control Percent Jun-11-19
								17	18	19	20	21
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	99.0 a	99.0 a	99.0 a	99.0 a	96.3 abc
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	97.7 a	99.0 a	93.0 bc	97.7 a	86.7 cd
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	99.0 a	99.0 a	99.0 a	99.0 a	97.7 ab
	ATRAZINE	4	L	32.0	oz/a	EPOST	B					
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B					
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B					
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	99.0 a	99.0 a	99.0 a	99.0 a	99.0 a
	ATRAZINE	4	L	64.0	oz/a	EPOST	B					
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B					
19	NTC							0.0 c	0.0 c	0.0 d	0.0 c	0.0 e
20	NTC							0.0 c	0.0 c	0.0 d	0.0 c	0.0 e
	LSD P=.10							1.53	3.55	5.85	4.37	9.81
	Standard Deviation							1.11	2.58	4.25	3.17	7.13
	CV							1.25	2.92	4.86	3.58	8.44
	Grand Mean							88.82	88.57	87.38	88.57	84.52
	Bartlett's X2							0.825	0.00	12.459	7.891	35.903
	P(Bartlett's X2)							0.364	.	0.132	0.019*	0.003*

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	----- ZEAMA PLOT - YIELD LBS Aug-30-19 22	----- ZEAMA PLOT - YIELD BU/A Aug-30-19 TY1 - 0 23
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	49.3 c-f	250 c-f
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	54.0 abc	274 abc
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A		
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	51.7 a-e	262 a-e
	CORVUS	2.63	SC	3.3	oz/a	PRE	A		
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	51.3 a-f	261 a-f
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	50.7 a-f	257 a-f
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A		
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	54.7 ab	278 ab
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	49.0 def	249 def
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	54.0 abc	274 abc
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	46.7 f	237 f
	ATRAZINE	4	SC	32.0	oz/a	PRE	A		
	DIFLEXX	4	SC	8.0	oz/a	POST	C		
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C		
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	48.3 def	245 def
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C		
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C		
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	47.3 ef	240 ef
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
	CAPRENO	3.45	SC	3.0	oz/a	POST	C		
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C		
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	50.0 b-f	254 b-f
	ATRAZINE	4	L	32.0	oz/a	PRE	A		
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B		
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B		
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	53.0 a-d	269 a-d
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A		
	DIFLEXX	4	SC	8.0	oz/a	POST	C		
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C		
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	51.7 a-e	262 a-e
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A		
	CAPRENO	3.45	SC	3.0	oz/a	POST	C		
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C		

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Missing data estimates are included in columns:Average=8,9,10
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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	22	23
	Weed Code							-----	-----
	Crop Code							ZEAMA	ZEAMA
	Part Rated							PLOT -	PLOT -
	Rating Data Type							YIELD	YIELD
	Rating Unit							LBS	BU/A
	Rating Date							Aug-30-19	Aug-30-19
	PRM Data Type								TY1
	# Subsamples, Dec.								- 0
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	52.3 a-d	266 a-d
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B		
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B		
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	51.7 a-e	262 a-e
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B		
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	55.3 a	281 a
	ATRAZINE	4	L	32.0	oz/a	EPOST	B		
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B		
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B		
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	54.0 abc	274 abc
	ATRAZINE	4	L	64.0	oz/a	EPOST	B		
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B		
19	NTC							49.7 c-f	252 c-f
20	NTC							47.3 ef	240 ef
	LSD P=.10							4.73	24.0
	Standard Deviation							3.44	17.4
	CV							6.72	6.72
	Grand Mean							51.10	259.4
	Bartlett's X2							22.117	22.117
	P(Bartlett's X2)							0.278	0.278

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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Missing data estimates are included in columns:Average=8,9,10
Could not calculate LSD (% mean diff) for columns 3,5,8 because error mean square = 0.

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For ----- ZEAMA Injury PERCENT Apr-10-19 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	191.250000			
Replicate	2	7.500000	3.750000	2.408	0.1036
Treatment	19	124.583333	6.557018	4.211	0.0001
Error	38	59.166667	1.557018		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Injury Percent Apr-16-19 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	891.250000			
Replicate	2	10.000000	5.000000	1.357	0.2696
Treatment	19	741.250000	39.013158	10.589	0.0001
Error	38	140.000000	3.684211		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Apr-16-19 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	110261.250000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	19	110261.250000	5803.223684	0.000	1.0000
Error	38	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent Apr-16-19 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	110078.983333			
Replicate	2	0.533333	0.266667	1.000	0.3774
Treatment	19	110068.316667	5793.069298	21724.012	0.0001
Error	38	10.133333	0.266667		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent Apr-16-19 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	110261.250000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	19	110261.250000	5803.223684	0.000	1.0000
Error	38	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Stunting Percent Apr-25-19 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	3191.250000			
Replicate	2	10.000000	5.000000	0.467	0.6303
Treatment	19	2774.583333	146.030702	13.645	0.0001
Error	38	406.666667	10.701754		

Randomized Complete Block (RCB) AOV For ---- ZEAMA Leafburn Percent Apr-25-19 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	1174.583333			
Replicate	2	5.833333	2.916667	0.689	0.5082
Treatment	19	1007.916667	53.048246	12.534	0.0001
Error	38	160.833333	4.232456		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent Apr-25-19 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	51	52272.000000			
Replicate	2	0.000000	0.000000	0.000	1.0000
Treatment	17	52272.000000	3074.823529	0.000	1.0000
Error	32	0.000000	0.000000		

Randomized Complete Block (RCB) AOV For AGRAS ----- Control Percent Apr-25-19 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	51	52053.333333			
Replicate	2	1.777778	0.888889	0.941	0.4007
Treatment	17	52021.333333	3060.078431	3240.083	0.0001
Error	32	30.222222	0.944444		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent Apr-25-19 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	51	52126.814815			
Replicate	2	0.592593	0.296296	0.457	0.6372
Treatment	17	52105.481481	3065.028322	4728.901	0.0001
Error	32	20.740741	0.648148		

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BAYER-Integrated Corn Herbicide Programs - II

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Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For ----- ZEAMA Stunting Percent May-8-19 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	3104.583333			
Replicate	2	110.833333	55.416667	4.984	0.0120
Treatment	19	2571.250000	135.328947	12.172	0.0001
Error	38	422.500000	11.118421		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Leaf Necrosis Percent May-8-19 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	24.583333			
Replicate	2	0.833333	0.416667	1.000	0.3774
Treatment	19	7.916667	0.416667	1.000	0.4823
Error	38	15.833333	0.416667		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-8-19 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	52797.933333			
Replicate	2	2.133333	1.066667	2.111	0.1351
Treatment	19	52776.600000	2777.715789	5497.563	0.0001
Error	38	19.200000	0.505263		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-8-19 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	52840.933333			
Replicate	2	6.533333	3.266667	1.000	0.3774
Treatment	19	52710.266667	2774.224561	849.253	0.0001
Error	38	124.133333	3.266667		

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-8-19 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	51332.183333			
Replicate	2	60.433333	30.216667	2.963	0.0637
Treatment	19	50884.183333	2678.114912	262.583	0.0001
Error	38	387.566667	10.199123		

Randomized Complete Block (RCB) AOV For ----- ZEAMA Control Percent May-14-19 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	2331.250000			
Replicate	2	47.500000	23.750000	1.080	0.3499
Treatment	19	1447.916667	76.206140	3.465	0.0005
Error	38	835.833333	21.995614		

Randomized Complete Block (RCB) AOV For AMAPA ----- Control Percent May-14-19 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	52696.983333			
Replicate	2	4.433333	2.216667	1.796	0.1798
Treatment	19	52645.650000	2770.823684	2245.017	0.0001
Error	38	46.900000	1.234211		

Randomized Complete Block (RCB) AOV For RAPRA ----- Control Percent May-14-19 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	52882.733333			
Replicate	2	13.333333	6.666667	1.000	0.3774
Treatment	19	52616.066667	2769.266667	415.390	0.0001
Error	38	253.333333	6.666667		

Randomized Complete Block (RCB) AOV For AGRASS ----- Control Percent May-14-19 (Data Column 19)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	51966.183333			
Replicate	2	13.333333	6.666667	0.370	0.6934
Treatment	19	51267.516667	2698.290351	149.613	0.0001
Error	38	685.333333	18.035088		

Randomized Complete Block (RCB) AOV For AMAPA ------ Control Percent Jun-11-19 (Data Column 20)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	52882.733333			
Replicate	2	22.933333	11.466667	1.139	0.3307
Treatment	19	52477.400000	2761.968421	274.463	0.0001
Error	38	382.400000	10.063158		

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Randomized Complete Block (RCB) AOV For AGRASS ------ Control Percent Jun-11-19 (Data Column 21)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	50714.983333			
Replicate	2	30.233333	15.116667	0.297	0.7445
Treatment	19	48752.983333	2565.946491	50.475	0.0001
Error	38	1931.766667	50.835965		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD LBS Aug-30-19 (Data Column 22)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	859.400000			
Replicate	2	24.700000	12.350000	1.046	0.3612
Treatment	19	386.066667	20.319298	1.721	0.0761
Error	38	448.633333	11.806140		

Randomized Complete Block (RCB) AOV For ----- ZEAMA PLOT YIELD BU/A Aug-30-19 TY1 0 (Data Column 23)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	22147.269738			
Replicate	2	636.534283	318.267141	1.046	0.3612
Treatment	19	9949.176872	523.640888	1.721	0.0761
Error	38	11561.558584	304.251542		

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.
Part Rated
Leaf = LEAF / FOLIAGE
PRM Data Type
TY1 = 5.076477*[22]

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
	Weed Code								-----	-----	AMAPA	AGRASS	RAPRA
	Crop Code								ZEAMA	ZEAMA	-----	-----	-----
	Part Rated												
	Rating Data Type								Injury	Injury	Control	Control	Control
	Rating Unit								PERCENT	Percent	Percent	Percent	Percent
	Rating Date								Apr-10-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-16-19
	PRM Data Type												
	# Subsamples, Dec.												
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	120	0.0	0.0	99.0	99.0	99.0
								204	0.0	0.0	99.0	99.0	99.0
								306	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	102	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	216	0.0	0.0	99.0	99.0	99.0
								311	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	103	5.0	5.0	99.0	99.0	99.0
	CORVUS	2.63	SC	3.3	oz/a	PRE	A	207	0.0	10.0	99.0	99.0	99.0
								304	5.0	5.0	99.0	99.0	99.0
								Mean =	3.3	6.7	99.0	99.0	99.0
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	104	5.0	10.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	208	5.0	10.0	99.0	95.0	99.0
								303	5.0	15.0	99.0	99.0	99.0
								Mean =	5.0	11.7	99.0	97.7	99.0
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	105	5.0	10.0	99.0	99.0	99.0
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A	202	0.0	5.0	99.0	99.0	99.0
								301	5.0	15.0	99.0	99.0	99.0
								Mean =	3.3	10.0	99.0	99.0	99.0
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	106	5.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	210	0.0	0.0	99.0	99.0	99.0
								317	0.0	0.0	99.0	99.0	99.0
								Mean =	1.7	0.0	99.0	99.0	99.0
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	107	0.0	0.0	99.0	99.0	99.0
								214	0.0	0.0	99.0	99.0	99.0
								313	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	108	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	209	0.0	0.0	99.0	99.0	99.0
								316	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	109	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	SC	32.0	oz/a	PRE	A	212	0.0	0.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	308	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	110	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	215	0.0	0.0	99.0	99.0	99.0
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	314	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	111	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	205	0.0	0.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	319	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
	Weed Code								-----	-----	AMAPA	AGRASS	RAPRA
	Crop Code								ZEAMA	ZEAMA	-----	-----	-----
	Part Rated												
	Rating Data Type								Injury	Injury	Control	Control	Control
	Rating Unit								PERCENT	Percent	Percent	Percent	Percent
	Rating Date								Apr-10-19	Apr-16-19	Apr-16-19	Apr-16-19	Apr-16-19
	PRM Data Type												
	# Subsamples, Dec.												
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	112	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	219	0.0	5.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B	312	5.0	10.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	1.7	5.0	99.0	99.0	99.0
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	113	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	203	0.0	5.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	305	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	1.7	99.0	99.0	99.0
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	114	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	217	0.0	0.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	318	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	115	0.0	0.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B	211	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	320	0.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	0.0	99.0	99.0	99.0
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	116	0.0	0.0	0.0	0.0	0.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	220	0.0	0.0	0.0	0.0	0.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B	310	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	117	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	201	0.0	0.0	0.0	0.0	0.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	302	0.0	0.0	0.0	0.0	0.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	0.0	0.0	0.0	0.0
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	118	0.0	0.0	0.0	0.0	0.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	213	0.0	0.0	0.0	0.0	0.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	315	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
19	NTC							119	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
20	NTC							101	0.0	0.0	0.0	0.0	0.0
								218	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
	Weed Code								-----	----	AMAPA	AGRAS	RAPRA
	Crop Code								ZEAMA	ZEAMA	-----	-----	-----
	Part Rated												
	Rating Data Type								Stunting	Leafburn	Control	Control	Control
	Rating Unit								Percent	Percent	Percent	Percent	Percent
	Rating Date								Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19	Apr-25-19
	PRM Data Type												
	# Subsamples, Dec.												
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	120	0.0	0.0	99.0	95.0	95.0
								204	0.0	0.0	99.0	99.0	99.0
								306	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	97.7	97.7
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	102	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	216	0.0	0.0	99.0	99.0	99.0
								311	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	103	10.0	0.0	99.0	99.0	99.0
	CORVUS	2.63	SC	3.3	oz/a	PRE	A	207	15.0	0.0	99.0	99.0	99.0
								304	10.0	0.0	99.0	99.0	99.0
								Mean =	11.7	0.0	99.0	99.0	99.0
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	104	20.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	208	30.0	0.0	99.0	99.0	99.0
								303	20.0	0.0	99.0	99.0	99.0
								Mean =	23.3	0.0	99.0	99.0	99.0
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	105	15.0	0.0	99.0	99.0	99.0
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A	202	15.0	0.0	99.0	99.0	99.0
								301	30.0	0.0	99.0	99.0	99.0
								Mean =	20.0	0.0	99.0	99.0	99.0
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	106	10.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	210	0.0	0.0	99.0	99.0	99.0
								317	0.0	0.0	99.0	99.0	99.0
								Mean =	3.3	0.0	99.0	99.0	99.0
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	107	0.0	0.0	99.0	95.0	99.0
								214	0.0	0.0	99.0	99.0	99.0
								313	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	97.7	99.0
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	108	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	209	0.0	0.0	99.0	99.0	99.0
								316	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	109	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	SC	32.0	oz/a	PRE	A	212	0.0	0.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	308	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	110	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	215	0.0	0.0	99.0	99.0	99.0
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	314	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	111	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	205	0.0	0.0	99.0	95.0	95.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	319	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	97.7	97.7

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA Stunting Percent Apr-25-19	---- ZEAMA Leafburn Percent Apr-25-19	AMAPA ----- Control Percent Apr-25-19	AGRAS ----- Control Percent Apr-25-19	RAPRA ----- Control Percent Apr-25-19
	Weed Code												
	Crop Code												
	Part Rated												
	Rating Data Type												
	Rating Unit												
	Rating Date												
	PRM Data Type												
	# Subsamples, Dec.												
									6	7	8	9	10
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	112	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	219	15.0	0.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B	312	5.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	6.7	0.0	99.0	99.0	99.0
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	113	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	203	0.0	0.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	305	0.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	114	0.0	0.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	217	0.0	0.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	318	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	0.0	99.0	99.0	99.0
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	115	0.0	0.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B	211	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	320	0.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	0.0	99.0	99.0	99.0
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	116	0.0	15.0	.	.	.
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	220	0.0	15.0	.	.	.
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B	310	0.0	15.0	.	.	.
								Mean =	0.0	15.0	.	.	.
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	117	0.0	15.0	.	.	.
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	201	0.0	0.0	.	.	.
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	302	0.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	5.0	99.0	99.0	99.0
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	118	0.0	10.0	.	.	.
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	213	0.0	15.0	.	.	.
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	315	0.0	10.0	.	.	.
								Mean =	0.0	11.7	.	.	.
19	NTC							119	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
20	NTC							101	0.0	0.0	0.0	0.0	0.0
								218	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA Stunting Percent May-8-19 11	----- ZEAMA Leaf - Necrosis Percent May-8-19 12	AMAPA ----- Control Percent May-8-19 13	RAPRA ----- Control Percent May-8-19 14	AGRASS ----- Control Percent May-8-19 15
1	HARNESS XTRA 5.6L	5.6	L	2.4 qt/a	PRE	A		120	0.0	0.0	99.0	85.0	95.0
								204	0.0	0.0	99.0	99.0	99.0
								306	5.0	0.0	99.0	99.0	99.0
								Mean =	1.7	0.0	99.0	94.3	97.7
2	HARNESS XTRA 5.6L	5.6	L	2.0 qt/a	PRE	A		102	0.0	0.0	99.0	99.0	95.0
	BALANCE FLEXX	2	SC	3.0 oz/a	PRE	A		216	5.0	0.0	99.0	99.0	95.0
								311	5.0	0.0	99.0	99.0	99.0
								Mean =	3.3	0.0	99.0	99.0	96.3
3	HARNESS XTRA 5.6L	5.6	L	2.0 qt/a	PRE	A		103	15.0	0.0	99.0	99.0	99.0
	CORVUS	2.63	SC	3.3 oz/a	PRE	A		207	20.0	0.0	99.0	99.0	90.0
								304	15.0	0.0	99.0	99.0	99.0
								Mean =	16.7	0.0	99.0	99.0	96.0
4	CORVUS	2.63	SC	4.5 oz/a	PRE	A		104	25.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A		208	20.0	0.0	99.0	99.0	95.0
								303	15.0	0.0	95.0	99.0	99.0
								Mean =	20.0	0.0	97.7	99.0	97.7
5	CORVUS	2.63	SC	4.5 oz/a	PRE	A		105	25.0	0.0	99.0	99.0	90.0
	HARNESS XTRA 5.6L	5.6	L	1.6 qt/a	PRE	A		202	15.0	0.0	99.0	99.0	99.0
								301	25.0	0.0	99.0	99.0	99.0
								Mean =	21.7	0.0	99.0	99.0	96.0
6	HARNESS MAX	3.85	L	2.0 qt/a	PRE	A		106	10.0	0.0	99.0	99.0	95.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A		210	0.0	0.0	99.0	99.0	99.0
								317	0.0	0.0	99.0	99.0	99.0
								Mean =	3.3	0.0	99.0	99.0	97.7
7	ACURON	3.44	SC	2.5 qt/a	PRE	A		107	0.0	0.0	99.0	99.0	90.0
								214	0.0	0.0	99.0	99.0	95.0
								313	0.0	0.0	99.0	99.0	95.0
								Mean =	0.0	0.0	99.0	99.0	93.3
8	RESICORE	3.35	EC	2.5 qt/a	PRE	A		108	0.0	0.0	99.0	99.0	90.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A		209	0.0	0.0	99.0	99.0	99.0
								316	5.0	0.0	99.0	99.0	99.0
								Mean =	1.7	0.0	99.0	99.0	96.0
9	HARNESS MAX	3.85	L	2.0 qt/a	PRE	A		109	10.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	SC	32.0 oz/a	PRE	A		212	0.0	0.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0 oz/a	POST	C		308	10.0	0.0	99.0	99.0	90.0
	METHYLATED SEED OIL	100	AD	1 % v/v	POST	C							
	N-PAK AMS LIQUID	34	SL	2.5 % v/v	POST	C							
								Mean =	6.7	0.0	99.0	99.0	96.0
10	HARNESS MAX	3.85	L	2.0 qt/a	PRE	A		110	10.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A		215	5.0	0.0	99.0	99.0	95.0
	DIFLEXX DUO	2.13	SC	24.0 oz/a	POST	C		314	5.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1 % v/v	POST	C							
	N-PAK AMS LIQUID	34	SL	2.5 % v/v	POST	C							
								Mean =	6.7	0.0	99.0	99.0	97.7
11	HARNESS MAX	3.85	L	2.0 qt/a	PRE	A		111	15.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0 oz/a	PRE	A		205	10.0	0.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0 oz/a	POST	C		319	10.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25 % v/v	POST	C							
	N-PAK AMS LIQUID	34	SL	2.5 % v/v	POST	C							
								Mean =	11.7	0.0	99.0	99.0	99.0

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA Stunting Percent May-8-19	----- ZEAMA Leaf - Necrosis Percent May-8-19	AMAPA ----- Control Percent May-8-19	RAPRA ----- Control Percent May-8-19	AGRASS ----- Control Percent May-8-19
									11	12	13	14	15
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	112	10.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	219	5.0	0.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B	312	5.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	6.7	0.0	99.0	99.0	99.0
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	113	15.0	0.0	99.0	99.0	90.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	203	10.0	0.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	305	5.0	0.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	10.0	0.0	99.0	99.0	96.0
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	114	15.0	0.0	99.0	99.0	90.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	217	5.0	0.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	318	10.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	10.0	0.0	99.0	99.0	96.0
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	115	10.0	0.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B	211	0.0	5.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	320	0.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	3.3	1.7	99.0	99.0	99.0
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	116	5.0	0.0	99.0	99.0	90.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	220	5.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B	310	5.0	0.0	95.0	99.0	90.0
								Mean =	5.0	0.0	97.7	99.0	93.0
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	117	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	201	0.0	0.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	302	0.0	0.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	0.0	99.0	99.0	99.0
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	118	0.0	0.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	213	0.0	0.0	99.0	99.0	99.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	315	0.0	0.0	99.0	99.0	99.0
								Mean =	0.0	0.0	99.0	99.0	99.0
19	NTC							119	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
20	NTC							101	0.0	0.0	0.0	0.0	0.0
								218	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	16	17	18	19	20
	Weed Code								-----	AMAPA	RAPRA	AGRASS	AMAPA
	Crop Code								ZEAMA	-----	-----	-----	------
	Part Rated												
	Rating Data Type								Control	Control	Control	Control	Control
	Rating Unit								Percent	Percent	Percent	Percent	Percent
	Rating Date								May-14-19	May-14-19	May-14-19	May-14-19	Jun-11-19
	PRM Data Type												
	# Subsamples, Dec.												
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	120	0.0	99.0	75.0	99.0	99.0
								204	0.0	99.0	95.0	99.0	95.0
								306	0.0	99.0	95.0	90.0	99.0
								Mean =	0.0	99.0	88.3	96.0	97.7
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	102	0.0	99.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	216	0.0	99.0	99.0	95.0	99.0
								311	10.0	99.0	99.0	99.0	99.0
								Mean =	3.3	99.0	99.0	97.7	99.0
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	103	5.0	99.0	99.0	99.0	99.0
	CORVUS	2.63	SC	3.3	oz/a	PRE	A	207	15.0	99.0	99.0	75.0	99.0
								304	0.0	99.0	99.0	99.0	99.0
								Mean =	6.7	99.0	99.0	91.0	99.0
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	104	20.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	208	20.0	95.0	99.0	90.0	99.0
								303	5.0	90.0	99.0	99.0	75.0
								Mean =	15.0	94.7	99.0	96.0	91.0
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	105	20.0	99.0	99.0	99.0	99.0
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A	202	5.0	99.0	99.0	99.0	99.0
								301	25.0	99.0	99.0	99.0	99.0
								Mean =	16.7	99.0	99.0	99.0	99.0
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	106	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	210	0.0	99.0	99.0	99.0	99.0
								317	0.0	99.0	99.0	99.0	99.0
								Mean =	0.0	99.0	99.0	99.0	99.0
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	107	0.0	99.0	99.0	90.0	99.0
								214	0.0	99.0	99.0	95.0	99.0
								313	0.0	99.0	99.0	90.0	99.0
								Mean =	0.0	99.0	99.0	91.7	99.0
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	108	0.0	99.0	99.0	95.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	209	0.0	99.0	99.0	99.0	99.0
								316	0.0	99.0	99.0	99.0	99.0
								Mean =	0.0	99.0	99.0	97.7	99.0
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	109	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	SC	32.0	oz/a	PRE	A	212	0.0	99.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	308	0.0	99.0	99.0	90.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	0.0	99.0	99.0	96.0	99.0
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	110	5.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	215	0.0	99.0	99.0	99.0	99.0
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	314	0.0	99.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	1.7	99.0	99.0	99.0	99.0
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	111	10.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	205	0.0	99.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	319	0.0	99.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	3.3	99.0	99.0	99.0	99.0

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	----- ZEAMA Control Percent May-14-19 16	AMAPA ----- Control Percent May-14-19 17	RAPRA ----- Control Percent May-14-19 18	AGRASS ----- Control Percent May-14-19 19	AMAPA ------ Control Percent Jun-11-19 20
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	112	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	PRE	A	219	10.0	99.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B	312	10.0	99.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	6.7	99.0	99.0	99.0	99.0
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	113	10.0	99.0	99.0	95.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	203	5.0	99.0	99.0	99.0	99.0
	DIFLEXX	4	SC	8.0	oz/a	POST	C	305	0.0	99.0	99.0	99.0	99.0
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	5.0	99.0	99.0	97.7	99.0
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	114	10.0	99.0	99.0	99.0	99.0
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	217	0.0	99.0	99.0	99.0	99.0
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	318	0.0	99.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C						
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C						
								Mean =	3.3	99.0	99.0	99.0	99.0
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	115	10.0	99.0	99.0	99.0	99.0
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B	211	0.0	99.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	320	0.0	99.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	3.3	99.0	99.0	99.0	99.0
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	116	10.0	99.0	99.0	95.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	220	10.0	99.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B	310	10.0	95.0	99.0	85.0	95.0
								Mean =	10.0	97.7	99.0	93.0	97.7
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	117	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	201	0.0	99.0	99.0	99.0	99.0
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	302	0.0	99.0	99.0	99.0	99.0
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B						
								Mean =	0.0	99.0	99.0	99.0	99.0
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	118	0.0	99.0	99.0	99.0	99.0
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	213	0.0	99.0	99.0	99.0	99.0
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	315	0.0	99.0	99.0	99.0	99.0
								Mean =	0.0	99.0	99.0	99.0	99.0
19	NTC							119	0.0	0.0	0.0	0.0	0.0
								206	0.0	0.0	0.0	0.0	0.0
								307	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
20	NTC							101	0.0	0.0	0.0	0.0	0.0
								218	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

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BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AGRASS ------ Control Percent Jun-11-19 (21)	----- ZEAMA PLOT - YIELD LBS Aug-30-19 (22)	----- ZEAMA PLOT - YIELD BU/A Aug-30-19 TY1 - 0 (23)
1	HARNESS XTRA 5.6L	5.6	L	2.4	qt/a	PRE	A	120	95.0	53.0	269
								204	95.0	50.0	254
								306	90.0	45.0	228
								Mean =	93.3	49.3	250
2	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	102	95.0	55.0	279
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	216	90.0	48.0	244
								311	99.0	59.0	300
								Mean =	94.7	54.0	274
3	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	103	95.0	51.0	259
	CORVUS	2.63	SC	3.3	oz/a	PRE	A	207	65.0	54.0	274
								304	99.0	50.0	254
								Mean =	86.3	51.7	262
4	CORVUS	2.63	SC	4.5	oz/a	PRE	A	104	95.0	50.0	254
	ATRAZINE	4	L	32.0	oz/a	PRE	A	208	85.0	53.0	269
								303	85.0	51.0	259
								Mean =	88.3	51.3	261
5	CORVUS	2.63	SC	4.5	oz/a	PRE	A	105	95.0	51.0	259
	HARNESS XTRA 5.6L	5.6	L	1.6	qt/a	PRE	A	202	99.0	51.0	259
								301	99.0	50.0	254
								Mean =	97.7	50.7	257
6	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	106	95.0	52.0	264
	ATRAZINE	4	L	32.0	oz/a	PRE	A	210	99.0	57.0	289
								317	99.0	55.0	279
								Mean =	97.7	54.7	278
7	ACURON	3.44	SC	2.5	qt/a	PRE	A	107	85.0	56.0	284
								214	85.0	47.0	239
								313	90.0	44.0	223
								Mean =	86.7	49.0	249
8	RESICORE	3.35	EC	2.5	qt/a	PRE	A	108	95.0	54.0	274
	ATRAZINE	4	L	32.0	oz/a	PRE	A	209	99.0	55.0	279
								316	99.0	53.0	269
								Mean =	97.7	54.0	274
9	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	109	95.0	50.0	254
	ATRAZINE	4	SC	32.0	oz/a	PRE	A	212	99.0	45.0	228
	DIFLEXX	4	SC	8.0	oz/a	POST	C	308	65.0	45.0	228
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C				
								Mean =	86.3	46.7	237
10	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	110	99.0	47.0	239
	ATRAZINE	4	L	32.0	oz/a	PRE	A	215	90.0	46.0	234
	DIFLEXX DUO	2.13	SC	24.0	oz/a	POST	C	314	99.0	52.0	264
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C				
								Mean =	96.0	48.3	245
11	HARNESS MAX	3.85	L	2.0	qt/a	PRE	A	111	99.0	45.0	228
	ATRAZINE	4	L	32.0	oz/a	PRE	A	205	90.0	50.0	254
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	319	95.0	47.0	239
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C				
								Mean =	94.7	47.3	240

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

Trial ID: CN-06-19 Study Dir.: David J Mayonado (2019-01-24-08)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AGRASS ------ Control Percent Jun-11-19	----- ZEAMA PLOT - YIELD LBS Aug-30-19	----- ZEAMA PLOT - YIELD BU/A Aug-30-19 TY1 - 0
	Weed Code										
	Crop Code										
	Part Rated										
	Rating Data Type										
	Rating Unit										
	Rating Date										
	PRM Data Type										
	# Subsamples, Dec.										
12	CORVUS	2.63	SC	3.3	oz/a	PRE	A	112	99.0	49.0	249
	ATRAZINE	4	L	32.0	oz/a	PRE	A	219	95.0	50.0	254
	HARNESS MAX	3.85	L	1.75	qt/a	EPOST	B	312	99.0	51.0	259
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B				
								Mean =	97.7	50.0	254
13	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	113	90.0	57.0	289
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	203	99.0	50.0	254
	DIFLEXX	4	SC	8.0	oz/a	POST	C	305	99.0	52.0	264
	METHYLATED SEED OIL	100	AD	1	% v/v	POST	C				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C				
								Mean =	96.0	53.0	269
14	HARNESS XTRA 5.6L	5.6	L	2.0	qt/a	PRE	A	114	95.0	55.0	279
	BALANCE FLEXX	2	SC	3.0	oz/a	PRE	A	217	99.0	50.0	254
	CAPRENO	3.45	SC	3.0	oz/a	POST	C	318	99.0	50.0	254
	NI SURFACTANT	100	AD	0.25	% v/v	POST	C				
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	POST	C				
								Mean =	97.7	51.7	262
15	HARNESS MAX	3.85	L	40.0	oz/a	PRE	A	115	95.0	54.0	274
	HARNESS MAX	3.85	L	40.0	oz/a	EPOST	B	211	99.0	55.0	279
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	320	95.0	48.0	244
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B				
								Mean =	96.3	52.3	266
16	CAPRENO	3.45	SC	3.0	oz/a	EPOST	B	116	90.0	52.0	264
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	220	95.0	49.0	249
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B	310	75.0	54.0	274
								Mean =	86.7	51.7	262
17	HALEX GT	4.389	SL	58.0	oz/a	EPOST	B	117	99.0	54.0	274
	ATRAZINE	4	L	32.0	oz/a	EPOST	B	201	95.0	56.0	284
	NI SURFACTANT	100	AD	0.25	% v/v	EPOST	B	302	99.0	56.0	284
	N-PAK AMS LIQUID	34	SL	2.5	% v/v	EPOST	B				
								Mean =	97.7	55.3	281
18	ROUNDUP PMAX	5.5	SL	32.0	oz/a	EPOST	B	118	99.0	53.0	269
	ATRAZINE	4	L	64.0	oz/a	EPOST	B	213	99.0	53.0	269
	PROWL H20	3.8	SC	32.0	oz/a	EPOST	B	315	99.0	56.0	284
								Mean =	99.0	54.0	274
19	NTC							119	0.0	53.0	269
								206	0.0	51.0	259
								307	0.0	45.0	228
								Mean =	0.0	49.7	252
20	NTC							101	0.0	45.0	228
								218	0.0	55.0	279
								309	0.0	42.0	213
								Mean =	0.0	47.3	240

University of Georgia

BAYER-Integrated Corn Herbicide Programs - II

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Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
RAPRA = RADISH, WILD / RAPHANUS RAPHANISTRUM L.
Part Rated
Leaf = LEAF / FOLIAGE
PRM Data Type
TY1 = 5.076477*[22]