

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Date Planted: Apr/28/2015 Row Spacing: 30 IN
 Variety: Pioneer P9807 No. of Reps: 4
 Population: 32,000 seeds/A % OM: 3.0
 Soil Type: Sandy clay loam pH: 6.6
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: Fall chisel plow; spring soil finish
 Fertilizer: 300lb/A Urea-broadcast and incorporated; 150lb/A 19-19-19

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMAPO	AMARANTH, POWELL	AMARANTHUS POWELLII S.WATS.
4.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
5.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	ZEAMX	CORN, FIELD	

Application Description

	A	B	C
Application Timing:	PRE	EPOS	POST
Date Treated:	Apr/29/2015	May/28/2015	Jun/09/2015
Time Treated:	12:30 PM	12:50 PM	12:20 PM
% Cloud Cover:	20	5	10
Air Temp., Unit:	65 F	85 F	70 F
% Relative Humidity:	43	48	70
Wind Speed/Unit/Dir:	4 mph NE	3 mph SW	6 mph W
Soil Temp., Unit:	52 F	68 F	62 F
Soil/Leaf Surface M:	5 -	5 5	3 5
Soil Moist (1=w 5=d):	5	4	3

Crop Stage at Each Application

	A	B	C
Crop Name:	ZEAMX	ZEAMX	ZEAMX
Height (In.):	-	6"	13"
Stage (L):	-	V3	V5

Weed Stage at Each Application

	A	B	C
Weed 1 Name:	ANGR	ANGR	ANGR
Height (In.):	-	3"	2-4"
Stage (L):	-	3	3-5
Weed 2 Name:	CHEAL	CHEAL	CHEAL
Height (In.):	-	1"	2"
Stage (L):	-	4	4-6
Weed 3 Name:	AMAPO	AMAPO	AMAPO
Height (In.):	-	0.75"	2"
Stage (L):	-	4	4-6
Weed 4 Name:	AMBEL	AMBEL	AMBEL
Height (In.):	-	0.75"	2"
Stage (L):	-	4	4-6
Weed 5 Name:	ABUTH	ABUTH	ABUTH
Height (In.):	-	1"	0.5-4"
Stage (L):	-	2	cot-7

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Date:	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	2	10	5	1	<1

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	20"	20"	100"	19	Water	28
B	Cub	3.8	AIXR	11003	26"	20"	100"	19	Water	28
C	Cub	3.8	AIXR	11003	30"	20"	100"	19	Water	28

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Trial ID: C10-15
 Conducted: Campus C-28

Study Dir.: Sprague and Powell
 Investigator: Christy Sprague

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	# Subsamples, Dec.	ZEAMX injury percent Jun/04/2015 7 DA-B 0	ANGR control percent Jun/04/2015 7 DA-B 0	CHEAL control percent Jun/04/2015 7 DA-B 0	AMAPO control percent Jun/04/2015 7 DA-B 0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	5	99	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	0	99	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	0	99	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	7	99	99	99
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	0	99	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					0	99	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					0	95	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	0	99	99	99
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	0	99	94	99
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	0	99	99	99
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

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Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2015	Jun/04/2015	Jun/04/2015	Jun/04/2015
Rating Date								7 DA-B	7 DA-B	7 DA-B	7 DA-B
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	0	99	99	99
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					0	99	99	99
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	0	99	99	99
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	0	99	99	99
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	0	99	99	99
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	0	99	94	99
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	0	99	99	99
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	0	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	0	99	99	99
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	0	99	99	99
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

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Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2015	Jun/04/2015	Jun/04/2015	Jun/04/2015
Rating Date								7 DA-B	7 DA-B	7 DA-B	7 DA-B
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	0	99	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	0	99	98	99
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	0	99	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								0.4	1.2	3.7	0.0
CV								65.99	0.88	2.78	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code								AMBEL	ABUTH	CAPBU	ZEMAX
Crop Code								control	control	control	injury
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2015	Jun/04/2015	Jun/04/2015	Jun/09/2015
Rating Date								7 DA-B	7 DA-B	7 DA-B	0 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	0
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	99	99	7
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	99	99	0
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	97	99	99	0
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	94	99	99	3
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	99	99	0
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	99	99	1
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					99	99	99	0
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	98	98	99	0
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	96	64	99	0
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	98	64	99	0
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

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Weed Code								AMBEL	ABUTH	CAPBU	ZEMAX
Crop Code								control	control	control	injury
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2015	Jun/04/2015	Jun/04/2015	Jun/09/2015
Rating Date								7 DA-B	7 DA-B	7 DA-B	0 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	99	79	99	0
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	99	99	0
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	99	99	0
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	99	99	1
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	99	99	0
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	98	62	99	0
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	1
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	99	99	1
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	99	99	1
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	0
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	99	99	0
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

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Crop Code								control	control	control	injury
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/04/2015	Jun/04/2015	Jun/04/2015	Jun/09/2015
Rating Date								7 DA-B	7 DA-B	7 DA-B	0 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	99	99	0
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	98	99	99	2
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	99	99	0
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								2.6	20.1	0.0	2.0
CV								1.96	15.75	0.0	231.71

Means followed by same letter do not significantly differ (P=.05, LSD)

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Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMAPO	AMBEL
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Trt-Eval Interval								0 DA-C	0 DA-C	0 DA-C	0 DA-C
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	99	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	99	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	99	99	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	98
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	99	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	99	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					98	99	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	99	99	99	99
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	99	93	99	89
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	99	98
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMAPO	AMBEL
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Trt-Eval Interval								0 DA-C	0 DA-C	0 DA-C	0 DA-C
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	99	99	99	98
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					97	99	99	99
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	99	99	99
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	99	99	99
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	99	99	99
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	99	95	99	96
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	99
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	99	99	99
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	99	99	99
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code	ANGR	CHEAL	AMAPO	AMBEL
Crop Code				
Rating Data Type	control	control	control	control
Rating Unit	percent	percent	percent	percent
Rating Date	Jun/09/2015	Jun/09/2015	Jun/09/2015	Jun/09/2015
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C
# Subsamples, Dec.	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ANGR	CHEAL	AMAPO	AMBEL
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	99	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	94	99	95
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	99	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								1.3	3.0	0.1	2.8
CV								0.98	2.21	0.1	2.1

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH	ZEAMX	ANGR	CHEAL
Crop Code								control	injury	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/09/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Rating Date								0 DA-C	7 DA-C	7 DA-C	7 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	0	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	5	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	98	3	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	98	0	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	98	3	99	99
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	0	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	1	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					99	1	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	99	0	99	99
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	73	4	99	99
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	70	0	99	99
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH	ZEAMX	ANGR	CHEAL
Crop Code								control	injury	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/09/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Rating Date								0 DA-C	7 DA-C	7 DA-C	7 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	81	1	99	99
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	2	99	99
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	0	99	99
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	1	99	99
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	0	99	99
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	77	0	99	99
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	2	99	99
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	7	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	3	99	99
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	0	99	99
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	0	99	99
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH		ANGR	CHEAL
Crop Code									ZEAMX		
Rating Data Type								control	injury	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jun/09/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Trt-Eval Interval								0 DA-C	7 DA-C	7 DA-C	7 DA-C
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	0	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	5	99	99
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	3	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								13.3	2.7	0.3	0.0
CV								10.31	128.46	0.23	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMAPO	AMBEL	ABUTH	CAPBU
								control	control	control	control
								percent	percent	percent	percent
								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
								7 DA-C	7 DA-C	7 DA-C	7 DA-C
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Rate	Grow	Appl				
No.	Name	Conc	Type		Unit	Stg	Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	99	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	99	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	99	99	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	99
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	99	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	99	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					99	99	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	99	99	99	99
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	99	99	99	99
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	99	99
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMAPO	AMBEL	ABUTH	CAPBU
Weed Code								control	control	control	control
Crop Code								percent	percent	percent	percent
Rating Data Type								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
Rating Unit								7 DA-C	7 DA-C	7 DA-C	7 DA-C
Rating Date								0	0	0	0
Trt-Eval Interval											
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	99	99	99	99
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	99	99	99
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	99	99	99
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	99	99	99
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	99	99	99
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	99	99
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	99
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	99	99	99
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	99	99	99
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMAPO	AMBEL	ABUTH	CAPBU
								control	control	control	control
								percent	percent	percent	percent
								Jun/16/2015	Jun/16/2015	Jun/16/2015	Jun/16/2015
								7 DA-C	7 DA-C	7 DA-C	7 DA-C
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Rate	Grow	Appl				
No.	Name	Conc	Type		Unit	Stg	Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	99	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	99	99	99
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	99	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								0.0	0.0	0.3	0.3
CV								0.0	0.0	0.23	0.21

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ZEAMX	ANGR	CHEAL	AMAPO
Crop Code								injury	control	control	control
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jun/23/2015
Rating Date								14 DA-C	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	0	99	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	7	99	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	7	99	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	3	99	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	8	99	99	99
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	0	99	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					3	99	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					2	98	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	0	97	99	99
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	3	99	99	99
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	0	99	99	99
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								ZEAMX	ANGR	CHEAL	AMAPO
								injury	control	control	control
								percent	percent	percent	percent
								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jun/23/2015
								14 DA-C	14 DA-C	14 DA-C	14 DA-C
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	0	99	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	10	99	99	99
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	3	99	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								2.6	0.6	0.0	0.0
CV								67.47	0.47	0.0	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15

Study Dir.: Sprague and Powell

Conducted: Campus C-28

Investigator: Christy Sprague

Weed Code								AMBEL	ABUTH	CAPBU	ZEAMX
Crop Code								control	control	control	injury
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jul/07/2015
Rating Date								14 DA-C	14 DA-C	14 DA-C	28 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	1
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	99	99	4
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	99	99	0
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	98	99	99	1
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	3
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	99	99	1
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	99	99	1
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					99	99	99	3
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	98	99	99	0
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	99	99	99	2
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	99	0
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								AMBEL	ABUTH	CAPBU	ZEAMX
Crop Code								control	control	control	injury
Rating Data Type								percent	percent	percent	percent
Rating Unit								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jul/07/2015
Rating Date								14 DA-C	14 DA-C	14 DA-C	28 DA-C
Trt-Eval Interval								0	0	0	0
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	99	99	99	3
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	99	99	0
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	99	99	0
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	99	99	1
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	99	99	2
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	99	2
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	5
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	99	99	6
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	99	99	2
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	0
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	99	99	0
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								AMBEL	ABUTH	CAPBU	ZEAMX
								control	control	control	injury
								percent	percent	percent	percent
								Jun/23/2015	Jun/23/2015	Jun/23/2015	Jul/07/2015
								14 DA-C	14 DA-C	14 DA-C	28 DA-C
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	99	99	0
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	99	99	5
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	99	99	1
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								0.8	0.4	0.0	2.7
CV								0.57	0.29	0.0	121.62

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								ANGR	CHEAL	AMAPO	AMBEL
								control	control	control	control
								percent	percent	percent	percent
								Jul/07/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
								28 DA-C	28 DA-C	28 DA-C	28 DA-C
								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	99	99	99
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	99	99	99
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	99	99	99	99
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	99	99	99
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	99	99	99
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	99	99	99
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					98	99	99	99
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	98	99	99	98
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	0	0	0
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	99	99	99	99
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	99	99	99
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

								ANGR	CHEAL	AMAPO	AMBEL
								control	control	control	control
								percent	percent	percent	percent
								Jul/07/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
								28 DA-C	28 DA-C	28 DA-C	28 DA-C
								0	0	0	0
Trt	Treatment	Form	Form	Rate	Rate	Grow	Appl				
No.	Name	Conc	Type		Unit	Stg	Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	98	99	99	99
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	99	99	99
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	99	99	99
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	99	99	99
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	99	99	99
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	99	99	99	99
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	99	99	99
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	99	99	99
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	99	99	99
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	99	99	99
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	99	99	99
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ANGR	CHEAL	AMAPO	AMBEL
Crop Code											
Rating Data Type								control	control	control	control
Rating Unit								percent	percent	percent	percent
Rating Date								Jul/07/2015	Jul/07/2015	Jul/07/2015	Jul/07/2015
Trt-Eval Interval								28 DA-C	28 DA-C	28 DA-C	28 DA-C
# Subsamples, Dec.								0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	99	99	99
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	99	99	99
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	99	99	99
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								1.1	0.0	0.0	0.5
CV								0.81	0.0	0.0	0.39

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH			
Crop Code								control	ZEAMX	ZEAMX	ZEAMX
Rating Data Type								percent	test weight	moisture	yield
Rating Unit								0	lb/bu	percent	bu/acre
Rating Date								Jul/07/2015	Oct/18/2015	Oct/18/2015	Oct/18/2015
Trt-Eval Interval								28 DA-C	172 DA-A	172 DA-A	at 15% M
# Subsamples, Dec.								0	0	1	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
1	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	56	19.2	236
1	Harness Xtra	5.6	L	1.8	qt/a	PRE	A				
2	Corvus	2.63	L	5.6	fl oz/a	PRE	A	99	56	17.8	247
2	Atrazine	90	WG	1.67	lb/a	PRE	A				
3	TripleFLEX II	4.16	L	2	pt/a	PRE	A	99	57	18.0	242
3	Degree Xtra	4	L	1.5	qt/a	PRE	A				
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
3	AMS		WG	17	lb/100 gal	POST	C				
4	SureStart II	4.16	L	2	pt/a	EPOS	B	99	57	17.4	248
4	Durango DMA	4	SL	32	fl oz/a	EPOS	B				
4	AMS LIQUID		L	2.5	% v/v	EPOS	B				
5	Capreno	3.45	L	3	fl oz/a	EPOS	B	99	57	18.0	238
5	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
5	AMS		WG	8.5	lb/100 gal	EPOS	B				
6	Degree Xtra	4	L	1	qt/a	EPOS	B	99	57	17.6	245
6	Impact	2.8	L	0.5	fl oz/a	EPOS	B				
6	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
6	AMS		WG	17	lb/100 gal	EPOS	B				
7	Realm Q (4 oz)	38.7	WG					99	56	17.5	226
7	Rimsulfuron (Premix)	25	WG	1.2	oz/a	EPOS	B				
7	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
7	Isxadifen (Premix)	50.5	WG	0.29	oz/a	EPOS	B				
7	Atrazine	90	WG	1.1	lb/a	EPOS	B				
7	Abundit Extra	3	SL	32	fl oz/a	EPOS	B				
7	AMS		WG	2	lb/a	EPOS	B				
8	Revulin Q (3.4 oz)	51.2	WG					99	56	18.5	249
8	Accent Q (Premix)	54.5	WG	0.9	oz/a	EPOS	B				
8	Mesotrione dry (Premix)	50	WG	2.5	oz/a	EPOS	B				
8	Atrazine	90	WG	1.1	lb/a	EPOS	B				
8	Crop oil concentrate		L	1	% v/v	EPOS	B				
8	AMS		WG	2	lb/a	EPOS	B				
9	Warrant	3	L	3	pt/a	EPOS	B	99	57	18.4	253
9	Atrazine	90	WG	0.56	lb/a	EPOS	B				
9	Roundup PowerMax	4.5	SL	22	fl oz/a	EPOS	B				
9	AMS		WG	17	lb/100 gal	EPOS	B				
10	Untreated							0	56	17.4	162
11	Bicep II Magnum	5.5	L	1	qt/a	PRE	A	99	57	17.9	235
11	Yukon	67.5	WG	4	oz/a	POST	C				
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
11	Surfactant		L	0.125	% v/v	POST	C				
11	AMS		WG	17	lb/100 gal	POST	C				
12	Degree Xtra	4	L	2	qt/a	PRE	A	99	57	17.7	246
12	Status	56	WG	2	oz/a	POST	C				
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	C				
12	AMS		WG	17	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH			
Crop Code								control	ZEAMX	ZEAMX	ZEAMX
Rating Data Type								percent	test weight	moisture	yield
Rating Unit								Jul/07/2015	Oct/18/2015	Oct/18/2015	Oct/18/2015
Rating Date								28 DA-C	172 DA-A	172 DA-A	at 15% M
Trt-Eval Interval								0	0	1	0
# Subsamples, Dec.											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
13	Harness Xtra	5.6	L	1.2	qt/a	PRE	A	99	59	17.8	240
13	Impact	2.8	L	0.75	fl oz/a	POST	C				
13	Atrazine	90	WG	1.1	lb/a	POST	C				
13	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
13	MSO		L	0.5	% v/v	POST	C				
13	AMS LIQUID		L	2.5	% v/v	POST	C				
14	Instigate (5.25 oz)	45.8	WG					99	57	18.0	238
14	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
14	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
14	Atrazine	90	WG	1.1	lb/a	PRE	A				
14	Abundit Extra	3	SL	32	fl oz/a	POST	C				
14	AMS		WG	2	lb/a	POST	C				
15	Lumax EZ	3.67	L	2	qt/a	PRE	A	99	57	17.8	247
15	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
15	AMS		WG	8.5	lb/100 gal	POST	C				
16	Lexar EZ	3.7	L	2.25	qt/a	PRE	A	99	57	18.0	248
16	Touchdown Total	4.17	SL	32	fl oz/a	POST	C				
16	AMS		WG	8.5	lb/100 gal	POST	C				
17	Breakfree NXT ATZ	5.6	L	2	qt/a	PRE	A	99	56	17.9	236
17	Instigate (5.25 oz)	45.8	WG								
17	Rimsulfuron (Premix)	25	WG	0.876	oz/a	PRE	A				
17	Mesotrione dry (Premix)	50	WG	4.38	oz/a	PRE	A				
17	Abundit Extra	3	SL	32	fl oz/a	POST	C				
17	AMS		WG	2	lb/a	POST	C				
18	SureStart II	4.16	L	2	pt/a	PRE	A	99	56	17.6	244
18	Durango DMA	4	SL	32	fl oz/a	POST	C				
18	AMS LIQUID		L	2.5	% v/v	POST	C				
19	Zidua	85	WG	2.5	oz/a	PRE	A	99	56	18.5	230
19	Sharpen	2.85	L	2.25	fl oz/a	PRE	A				
19	Atrazine	90	WG	1.1	lb/a	PRE	A				
19	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
19	AMS		WG	17	lb/100 gal	POST	C				
20	Verdict	5.57	EC	15	fl oz/a	PRE	A	99	57	18.1	247
20	Atrazine	90	WG	1.1	lb/a	PRE	A				
20	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
20	AMS		WG	17	lb/100 gal	POST	C				
21	Keystone NXT	5.6	L	2.6	qt/a	PRE	A	99	56	17.8	231
21	Hornet WDG	68.5	WG	3	oz/a	PRE	A				
21	Durango DMA	4	SL	32	fl oz/a	POST	C				
21	AMS LIQUID		L	2.5	% v/v	POST	C				
22	Balance Flexx	2	L	4	fl oz/a	PRE	A	99	57	18.0	247
22	Laudis	3.5	L	2	fl oz/a	POST	C				
22	Liberty	2.34	L	22	fl oz/a	POST	C				
22	AMS		WG	8.5	lb/100 gal	POST	C				
23	Lumax EZ	3.67	L	1.5	qt/a	PRE	A	99	57	18.0	238
23	Halex GT	4.38	L	3.6	pt/a	POST	C				
23	Surfactant		L	0.5	% v/v	POST	C				
23	AMS		WG	8.5	lb/100 gal	POST	C				

MSU Weed Science Research Program

Comparison of commercial herbicide programs in corn

Trial ID: C10-15 Study Dir.: Sprague and Powell
 Conducted: Campus C-28 Investigator: Christy Sprague

Weed Code								ABUTH			
Crop Code								control	ZEAMX	ZEAMX	ZEAMX
Rating Data Type								percent	test weight	moisture	yield
Rating Unit								Jul/07/2015	lb/bu	percent	bu/acre
Rating Date								28 DA-C	Oct/18/2015	Oct/18/2015	Oct/18/2015
Trt-Eval Interval								0	0	1	0
# Subsamples, Dec.								0	0	1	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code				
24	Lexar EZ	3.7	L	1.75	qt/a	PRE	A	99	56	17.5	247
24	Halex GT	4.38	L	3.6	pt/a	POST	C				
24	Surfactant		L	0.5	% v/v	POST	C				
24	AMS		WG	8.5	lb/100 gal	POST	C				
25	Verdict	5.57	EC	12	fl oz/a	PRE	A	99	57	18.4	233
25	Status	56	WG	5	oz/a	POST	C				
25	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	C				
25	AMS		WG	17	lb/100 gal	POST	C				
26	Armezon	2.8	L	0.75	fl oz/a	EPOS	B	99	55	18.2	233
26	Outlook	6	L	18	fl oz/a	EPOS	B				
26	Atrazine	90	WG	0.56	lb/a	EPOS	B				
26	Roundup PowerMax	4.5	SL	32	fl oz/a	EPOS	B				
26	AMS		WG	17	lb/100 gal	EPOS	B				
LSD (P=.05)								0.5	1.6	0.96	19.2
CV								0.36	1.96	3.79	5.71

Means followed by same letter do not significantly differ (P=.05, LSD)