

**Commercial programs for weed control in corn**

Trial ID: C01-18 Study Dir.: Burns, Stiles, Powell, Craft  
 Conducted: Campus T-17 Investigator: Erin Burns

**Planting Date:** May-29-2018 **Row Spacing:** 30 IN  
**Variety:** P9840 AM **No. of Reps:** 4  
**Population:** 34600 seeds/A **% OM:** 3.7  
**Soil Type:** LOAM **pH:** 6.2  
**Plot Size:** 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plowed; spring soil finished twice  
**Fertilizer:** 300lbs/A urea incorporated  
 150lbs/A 19-19-19 starter

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	Common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	ZEAMX	Corn	

**Application Description**

	A	B	C	D
<b>Application Timing:</b>	PRE	EPOS	POST	LPOST
<b>Date Treated:</b>	Jun-1-2018	Jun-21-2018	Jun-25-2018	Jul-2-2018
<b>Time Treated:</b>	6:30 PM	2:30 PM	1:20 PM	9:00 AM
<b>% Cloud Cover:</b>	80	80	85	50
<b>Air Temp., Unit:</b>	80.3 F	77 F	72 F	77 F
<b>% Relative Humidity:</b>	61.5	49	62	68
<b>Wind Speed/Unit/Dir:</b>	3.3 MPH NE	7 MPH E	7.5 MPH NE	3 MPH NW
<b>Soil Temp, Unit:</b>	76 F	76 F	80 F	74 F
<b>Leaf Moist/Dew Presence (Y/N):</b>	4	4	3	5
<b>Soil Moist:</b>	4	4	3	5

**Crop Stage at Each Application**

	A	B	C	D
<b>Crop 1 Name:</b>	ZEAMX	ZEAMX	ZEAMX	ZEAMX
<b>Height:</b>				
<b>Stage:</b>		V3	V4	V6

**Weed Stage at Each Application**

	A	B	C	D
<b>Weed 1 Name:</b>	ANGR	ANGR	ANGR	ANGR
<b>Height:</b>	2 IN	4 IN	4 IN	8 IN
<b>Stage:</b>	6 L	7 L	7 L	5 L
<b>Weed 2 Name:</b>	CHEAL	CHEAL	CHEAL	CHEAL
<b>Height:</b>	1 IN	2 IN	2 IN	8 IN
<b>Stage:</b>	8 L	22 L	22 L	45 L
<b>Weed 3 Name:</b>	AMAPO	AMAPO	AMAPO	AMAPO
<b>Height:</b>	1 IN	3 IN	3 IN	7 IN
<b>Stage:</b>	6 L	15 L	15 L	17 L
<b>Weed 4 Name:</b>	AMBEL	AMBEL	AMBEL	AMBEL
<b>Height:</b>	1 IN	2 IN	2 IN	8 IN
<b>Stage:</b>	6 L	8 L	8 L	11 L
<b>Weed 5 Name:</b>	ABUTH	ABUTH	ABUTH	ABUTH
<b>Height:</b>	2 IN	4 IN	4 IN	12 IN
<b>Stage:</b>	5 L	7 L	7 L	7 L

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	2 FT2	3 FT2	1 FT2	1 FT2	1 FT2

**Application Equipment**

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 PSI
C	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GPA	WATER	30 PSI
D	CUB	3.8 MPH	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 PSI

**Comments:**

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 Sponsor Contact:

Pest Code				ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX
Crop Code			ZEAMX						ZEAMX
Rating Date			Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-5-2018
Rating Type			injury	control	control	control	control	control	injury
Rating Unit			percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval			5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	10 DA-C
Trt No.	Treatment Name	Rate Rate Unit	Appl Code						
1	Corvus	3.3 fl oz/a	A	0	100	100	100	100	0
	1 Harness Xtra 5.6L	1.8 qt/a	A						
2	Acuron	3 qt/a	A	0	100	100	100	100	0
3	Acuron Flexi	2.25 qt/a	A	0	99	99	100	100	0
4	Armezon PRO	1 pt/a	B	0	94	94	94	94	0
	4 Atrazine	1.1 lb/a	B						
	4 Roundup PowerMax	16 fl oz/a	B						
	4 Surfactant	0.25 % v/v	B						
	4 AMS	8.5 lb/100 gal	B						
5	Degree Xtra	2 qt/a	B	0	95	95	95	95	0
	5 Roundup PowerMax	32 fl oz/a	B						
	5 AMS	8.5 lb/100 gal	B						
6	Capreno	3 fl oz/a	B	0	95	95	95	95	0
	6 Roundup PowerMax	22 fl oz/a	B						
	6 AMS	8.5 lb/100 gal	B						
7	Anthem MAXX	2 fl oz/a	B	0	99	99	99	99	0
	7 Atrazine	1.1 lb/a	B						
	7 Callisto	2.5 fl oz/a	B						
	7 Roundup PowerMax	22 fl oz/a	B						
	7 COC	1 % v/v	B						
	7 AMS	8.5 lb/100 gal	B						
8	Warrant	3 pt/a	B	0	96	96	96	96	0
	8 Atrazine	0.55 lb/a	B						
	8 Roundup PowerMax	22 fl oz/a	B						
	8 AMS	8.5 lb/100 gal	B						
	8 Roundup PowerMax (IFN)	22 fl oz/a	D						
	8 AMS (IFN)	8.5 lb/100 gal	D						
9	Harness Max	64 fl oz/a	B	0	98	96	98	98	0
	9 Atrazine	1.1 lb/a	B						
	9 Roundup PowerMax	22 fl oz/a	B						
	9 AMS	8.5 lb/100 gal	B						
10	Zidua SC	3.2 fl oz/a	A	0	95	100	100	100	0
	10 Sharpen	2 fl oz/a	A						
	10 Atrazine	1.1 lb/a	A						
	10 Roundup PowerMax	32 fl oz/a	C						
	10 AMS	8.5 lb/100 gal	C						
11	Zidua SC	3.2 fl oz/a	A	0	96	100	100	100	0
	11 Atrazine	1.1 lb/a	A					98	
	11 Roundup PowerMax	32 fl oz/a	C						
	11 AMS	8.5 lb/100 gal	C						
12	Zidua SC	3.2 fl oz/a	A	0	93	100	100	100	0
	12 Callisto	3 fl oz/a	A						
	12 Atrazine	1.1 lb/a	A						
	12 Roundup PowerMax	32 fl oz/a	C						
	12 AMS	8.5 lb/100 gal	C						

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Pest Code			ZEAMX	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	
Crop Code			Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-5-2018	
Rating Date			injury	control	control	control	control	control	injury	
Rating Type			percent	percent	percent	percent	percent	percent	percent	
Rating Unit			5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	10 DA-C	
Trt-Eval Interval										
Trt No.	Treatment Name	Rate Rate Unit	Appl Code							
13	Verdict	10 fl oz/a	A	0	100	100	100	100	100	0
13	Atrazine	1.1 lb/a	A							
13	Roundup PowerMax	32 fl oz/a	C							
13	AMS	8.5 lb/100 gal	C							
14	Untreated			0	0	0	0	0	0	0
15	Balance Flexx	4 fl oz/a	A	0	94	100	100	99	100	0
15	DiFlexx Duo	24 fl oz/a	C							
15	Roundup PowerMax	22 fl oz/a	C							
15	AMS	8.5 lb/100 gal	C							
16	SureStart II	1.25 qt/a	A	0	100	100	100	100	100	0
16	Keystone NXT	1.25 qt/a	A							
16	Durango DMA	32 fl oz/a	C							
16	AMS	8.5 lb/100 gal	C							
17	Resicore	2.25 qt/a	A	0	100	100	100	100	100	0
17	Atrazine	1.1 lb/a	A							
17	Durango DMA	32 fl oz/a	C							
17	AMS	8.5 lb/100 gal	C							
18	Keystone NXT	2 qt/a	A	0	100	100	100	100	100	0
18	Instigate	5.2 oz/a	A							
18	Durango DMA	32 fl oz/a	C							
18	AMS	8.5 lb/100 gal	C							
19	Keystone NXT	2 qt/a	A	0	100	100	100	99	98	0
19	Realm Q	4 oz/a	C							
19	Durango DMA	32 fl oz/a	C							
19	AMS	8.5 lb/100 gal	C							
20	Anthem MAXX	4 fl oz/a	A	0	100	99	100	100	100	0
20	Atrazine	1.1 lb/a	A							
20	Callisto	2.5 fl oz/a	C							
20	Atrazine	0.55 lb/a	C							
20	Roundup PowerMax	22 fl oz/a	C							
20	COC	1 % v/v	C							
20	AMS	8.5 lb/100 gal	C							
21	Degree Xtra	2 qt/a	A	0	100	100	100	94	95	0
21	Status	2 oz/a	C							
21	Roundup PowerMax	22 fl oz/a	C							
21	AMS	8.5 lb/100 gal	C							
22	TripleFLEX II	1 qt/a	A	0	100	100	100	100	99	0
22	Degree Xtra	1.5 qt/a	A							
22	Roundup PowerMax (IFN)	22 fl oz/a	C							
22	AMS (IFN)	8.5 lb/100 gal	C							
23	Acuron	1.5 qt/a	A	0	99	100	100	100	100	0
23	Halex GT	3.6 pt/a	C							
23	Surfactant	0.25 % v/v	C							
23	AMS	8.5 lb/100 gal	C							
24	Acuron	1.5 qt/a	A	0	100	100	100	100	100	0
24	Acuron	1.5 qt/a	C							
24	Roundup PowerMax	26 fl oz/a	C							
24	AMS	8.5 lb/100 gal	C							

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Pest Code			ZEAMX	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	ZEAMX	
Crop Code			Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jul-5-2018	
Rating Date			injury	control	control	control	control	control	injury	
Rating Type			percent	percent	percent	percent	percent	percent	percent	
Rating Unit			5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	5 DA-B	10 DA-C	
Trt-Eval Interval										
Trt No.	Treatment Name	Rate Unit	Appl Code							
25	Bicep II Magnum	2.1 qt/a	A	0	100	100	100	98	99	0
25	Halex GT	3.6 pt/a	C							
25	Surfactant	0.25 % v/v	C							
25	AMS	8.5 lb/100 gal	C							
26	Weed Free			0	99	99	99	99	99	0
26	Roundup PowerMax	32 fl oz/a	B							
26	AMS	8.5 lb/100 gal	B							
26	Roundup PowerMax	32 fl oz/a	C							
26	AMS	8.5 lb/100 gal	C							
26	Roundup PowerMax	32 fl oz/a	D							
26	AMS	8.5 lb/100 gal	D							
LSD P=.05				.	4.3	1.9	1.6	2.3	2.5	.
Standard Deviation				0.0	3.1	1.3	1.1	1.6	1.8	0.0
CV				0.0	3.24	1.4	1.2	1.71	1.87	0.0

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	
Crop Code								ZEAMX			
Rating Date			Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	
Rating Type			control	control	control	control	control	injury	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			10 DA-C	10 DA-C	10 DA-C	10 DA-C	10 DA-C	22 DA-C	22 DA-C	22 DA-C	
Trt No.	Treatment Name	Rate Rate Unit	Appl Code								
1	Corvus	3.3 fl oz/a	A	100	100	100	100	100	0	100	100
1	Harness Xtra 5.6L	1.8 qt/a	A								
2	Acuron	3 qt/a	A	100	100	100	100	100	0	100	100
3	Acuron Flexi	2.25 qt/a	A	100	100	100	100	100	0	100	100
4	Armezon PRO	1 pt/a	B	98	100	100	100	99	0	96	100
4	Atrazine	1.1 lb/a	B								
4	Roundup PowerMax	16 fl oz/a	B								
4	Surfactant	0.25 % v/v	B								
4	AMS	8.5 lb/100 gal	B								
5	Degree Xtra	2 qt/a	B	100	100	100	99	100	0	100	100
5	Roundup PowerMax	32 fl oz/a	B								
5	AMS	8.5 lb/100 gal	B								
6	Capreno	3 fl oz/a	B	99	95	100	100	100	0	100	90
6	Roundup PowerMax	22 fl oz/a	B								
6	AMS	8.5 lb/100 gal	B								
7	Anthem MAXX	2 fl oz/a	B	99	100	100	100	100	0	100	100
7	Atrazine	1.1 lb/a	B								
7	Callisto	2.5 fl oz/a	B								
7	Roundup PowerMax	22 fl oz/a	B								
7	COC	1 % v/v	B								
7	AMS	8.5 lb/100 gal	B								
8	Warrant	3 pt/a	B	99	95	98	95	97	0	100	99
8	Atrazine	0.55 lb/a	B								
8	Roundup PowerMax	22 fl oz/a	B								
8	AMS	8.5 lb/100 gal	B								
8	Roundup PowerMax (IFN)	22 fl oz/a	D								
8	AMS (IFN)	8.5 lb/100 gal	D								
9	Harness Max	64 fl oz/a	B	100	100	100	100	100	0	100	100
9	Atrazine	1.1 lb/a	B								
9	Roundup PowerMax	22 fl oz/a	B								
9	AMS	8.5 lb/100 gal	B								
10	Zidua SC	3.2 fl oz/a	A	100	100	100	100	100	0	100	100
10	Sharpen	2 fl oz/a	A								
10	Atrazine	1.1 lb/a	A								
10	Roundup PowerMax	32 fl oz/a	C								
10	AMS	8.5 lb/100 gal	C								
11	Zidua SC	3.2 fl oz/a	A	100	100	100	100	100	0	100	100
11	Atrazine	1.1 lb/a	A								
11	Roundup PowerMax	32 fl oz/a	C								
11	AMS	8.5 lb/100 gal	C								
12	Zidua SC	3.2 fl oz/a	A	100	100	100	100	100	0	100	100
12	Callisto	3 fl oz/a	A								
12	Atrazine	1.1 lb/a	A								
12	Roundup PowerMax	32 fl oz/a	C								
12	AMS	8.5 lb/100 gal	C								

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 Sponsor Contact:

Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL	
Crop Code								ZEAMX			
Rating Date			Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018	
Rating Type			control	control	control	control	control	injury	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			10 DA-C	10 DA-C	10 DA-C	10 DA-C	10 DA-C	22 DA-C	22 DA-C	22 DA-C	
Trt No.	Treatment Name	Rate Rate Unit	Appl Code								
13	Verdict	10 fl oz/a	A	100	100	100	100	100	0	100	100
13	Atrazine	1.1 lb/a	A								
13	Roundup PowerMax	32 fl oz/a	C								
13	AMS	8.5 lb/100 gal	C								
14	Untreated			0	0	0	0	0	0	0	0
15	Balance Flexx	4 fl oz/a	A	100	100	100	100	100	0	100	100
15	DiFlex Duo	24 fl oz/a	C								
15	Roundup PowerMax	22 fl oz/a	C								
15	AMS	8.5 lb/100 gal	C								
16	SureStart II	1.25 qt/a	A	100	100	100	100	100	0	100	100
16	Keystone NXT	1.25 qt/a	A								
16	Durango DMA	32 fl oz/a	C								
16	AMS	8.5 lb/100 gal	C								
17	Resicore	2.25 qt/a	A	100	100	100	100	100	0	100	100
17	Atrazine	1.1 lb/a	A								
17	Durango DMA	32 fl oz/a	C								
17	AMS	8.5 lb/100 gal	C								
18	Keystone NXT	2 qt/a	A	100	100	100	100	100	0	100	100
18	Instigate	5.2 oz/a	A								
18	Durango DMA	32 fl oz/a	C								
18	AMS	8.5 lb/100 gal	C								
19	Keystone NXT	2 qt/a	A	100	100	100	100	100	0	100	100
19	Realm Q	4 oz/a	C								
19	Durango DMA	32 fl oz/a	C								
19	AMS	8.5 lb/100 gal	C								
20	Anthem MAXX	4 fl oz/a	A	100	100	100	100	100	0	100	100
20	Atrazine	1.1 lb/a	A								
20	Callisto	2.5 fl oz/a	C								
20	Atrazine	0.55 lb/a	C								
20	Roundup PowerMax	22 fl oz/a	C								
20	COC	1 % v/v	C								
20	AMS	8.5 lb/100 gal	C								
21	Degree Xtra	2 qt/a	A	100	100	100	100	100	0	100	100
21	Status	2 oz/a	C								
21	Roundup PowerMax	22 fl oz/a	C								
21	AMS	8.5 lb/100 gal	C								
22	TripleFLEX II	1 qt/a	A	100	100	100	100	100	0	100	100
22	Degree Xtra	1.5 qt/a	A								
22	Roundup PowerMax (IFN)	22 fl oz/a	C								
22	AMS (IFN)	8.5 lb/100 gal	C								
23	Acuron	1.5 qt/a	A	100	100	100	100	100	0	100	100
23	Halex GT	3.6 pt/a	C								
23	Surfactant	0.25 % v/v	C								
23	AMS	8.5 lb/100 gal	C								
24	Acuron	1.5 qt/a	A	100	100	100	100	100	0	100	100
24	Acuron	1.5 qt/a	C								
24	Roundup PowerMax	26 fl oz/a	C								
24	AMS	8.5 lb/100 gal	C								

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Pest Code			ANGR	CHEAL	AMAPO	AMBEL	ABUTH		ANGR	CHEAL
Crop Code								ZEAMX		
Rating Date			Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-17-2018	Jul-17-2018	Jul-17-2018
Rating Type			control	control	control	control	control	injury	control	control
Rating Unit			percent	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval			10 DA-C	10 DA-C	10 DA-C	10 DA-C	10 DA-C	22 DA-C	22 DA-C	22 DA-C
Trt No.	Treatment Name	Rate Rate Unit	Appl Code							
25	Bicep II Magnum	2.1 qt/a	A	100	100	100	100	100	0	100
25	Halex GT	3.6 pt/a	C							
25	Surfactant	0.25 % v/v	C							
25	AMS	8.5 lb/100 gal	C							
26	Weed Free			100	100	100	100	100	0	100
26	Roundup PowerMax	32 fl oz/a	B							
26	AMS	8.5 lb/100 gal	B							
26	Roundup PowerMax	32 fl oz/a	C							
26	AMS	8.5 lb/100 gal	C							
26	Roundup PowerMax	32 fl oz/a	D							
26	AMS	8.5 lb/100 gal	D							
LSD P=.05				1.4	1.9	0.7	1.2	1.1	.	2.1
Standard Deviation				1.0	1.3	0.5	0.8	0.7	0.0	1.5
CV				1.02	1.37	0.48	0.88	0.78	0.0	1.57

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Pest Code			AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	
Crop Code			Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018	
Rating Date			control	control	control	injury	control	control	control	
Rating Type			percent	percent	percent	percent	percent	percent	percent	
Rating Unit			22 DA-C	22 DA-C	22 DA-C	35 DA-C	35 DA-C	35 DA-C	35 DA-C	
Trt-Eval Interval										
Trt No.	Treatment Name	Rate Rate Unit	Appl Code							
1	Corvus	3.3 fl oz/a	A	100	100	100	0	100	100	100
1	Harness Xtra 5.6L	1.8 qt/a	A							
2	Acuron	3 qt/a	A	100	100	100	0	100	100	100
3	Acuron Flexi	2.25 qt/a	A	100	100	100	0	100	100	100
4	Armezon PRO	1 pt/a	B	100	100	100	0	100	100	100
4	Atrazine	1.1 lb/a	B							
4	Roundup PowerMax	16 fl oz/a	B							
4	Surfactant	0.25 % v/v	B							
4	AMS	8.5 lb/100 gal	B							
5	Degree Xtra	2 qt/a	B	100	98	100	0	100	100	100
5	Roundup PowerMax	32 fl oz/a	B							
5	AMS	8.5 lb/100 gal	B							
6	Capreno	3 fl oz/a	B	100	100	100	0	99	89	100
6	Roundup PowerMax	22 fl oz/a	B							
6	AMS	8.5 lb/100 gal	B							
7	Anthem MAXX	2 fl oz/a	B	100	100	100	0	93	100	100
7	Atrazine	1.1 lb/a	B							
7	Callisto	2.5 fl oz/a	B							
7	Roundup PowerMax	22 fl oz/a	B							
7	COC	1 % v/v	B							
7	AMS	8.5 lb/100 gal	B							
8	Warrant	3 pt/a	B	99	94	100	0	100	98	100
8	Atrazine	0.55 lb/a	B							
8	Roundup PowerMax	22 fl oz/a	B							
8	AMS	8.5 lb/100 gal	B							
8	Roundup PowerMax (IFN)	22 fl oz/a	D							
8	AMS (IFN)	8.5 lb/100 gal	D							
9	Harness Max	64 fl oz/a	B	100	100	100	0	100	100	100
9	Atrazine	1.1 lb/a	B							
9	Roundup PowerMax	22 fl oz/a	B							
9	AMS	8.5 lb/100 gal	B							
10	Zidua SC	3.2 fl oz/a	A	100	100	100	0	100	100	100
10	Sharpen	2 fl oz/a	A							
10	Atrazine	1.1 lb/a	A							
10	Roundup PowerMax	32 fl oz/a	C							
10	AMS	8.5 lb/100 gal	C							
11	Zidua SC	3.2 fl oz/a	A	100	100	100	0	100	100	100
11	Atrazine	1.1 lb/a	A							
11	Roundup PowerMax	32 fl oz/a	C							
11	AMS	8.5 lb/100 gal	C							
12	Zidua SC	3.2 fl oz/a	A	100	100	100	0	100	100	100
12	Callisto	3 fl oz/a	A							
12	Atrazine	1.1 lb/a	A							
12	Roundup PowerMax	32 fl oz/a	C							
12	AMS	8.5 lb/100 gal	C							

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.



# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code			AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	
Crop Code										
Rating Date			Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018	
Rating Type			control	control	control	injury	control	control	control	
Rating Unit			percent	percent	percent	percent	percent	percent	percent	
Trt-Eval Interval			22 DA-C	22 DA-C	22 DA-C	35 DA-C	35 DA-C	35 DA-C	35 DA-C	
Trt No.	Treatment Name	Rate Rate Unit	Appl Code							
13	Verdict	10 fl oz/a	A	100	100	100	0	100	100	100
13	Atrazine	1.1 lb/a	A							
13	Roundup PowerMax	32 fl oz/a	C							
13	AMS	8.5 lb/100 gal	C							
14	Untreated			0	0	0	0	0	0	0
15	Balance Flexx	4 fl oz/a	A	100	100	100	0	100	100	100
15	DiFlexx Duo	24 fl oz/a	C							
15	Roundup PowerMax	22 fl oz/a	C							
15	AMS	8.5 lb/100 gal	C							
16	SureStart II	1.25 qt/a	A	100	100	100	0	100	100	100
16	Keystone NXT	1.25 qt/a	A							
16	Durango DMA	32 fl oz/a	C							
16	AMS	8.5 lb/100 gal	C							
17	Resicore	2.25 qt/a	A	100	100	100	0	100	100	100
17	Atrazine	1.1 lb/a	A							
17	Durango DMA	32 fl oz/a	C							
17	AMS	8.5 lb/100 gal	C							
18	Keystone NXT	2 qt/a	A	100	100	100	0	100	100	100
18	Instigate	5.2 oz/a	A							
18	Durango DMA	32 fl oz/a	C							
18	AMS	8.5 lb/100 gal	C							
19	Keystone NXT	2 qt/a	A	100	100	100	0	100	100	100
19	Realm Q	4 oz/a	C							
19	Durango DMA	32 fl oz/a	C							
19	AMS	8.5 lb/100 gal	C							
20	Anthem MAXX	4 fl oz/a	A	100	100	100	0	100	100	100
20	Atrazine	1.1 lb/a	A							
20	Callisto	2.5 fl oz/a	C							
20	Atrazine	0.55 lb/a	C							
20	Roundup PowerMax	22 fl oz/a	C							
20	COC	1 % v/v	C							
20	AMS	8.5 lb/100 gal	C							
21	Degree Xtra	2 qt/a	A	100	100	100	0	100	100	100
21	Status	2 oz/a	C							
21	Roundup PowerMax	22 fl oz/a	C							
21	AMS	8.5 lb/100 gal	C							
22	TripleFLEX II	1 qt/a	A	100	100	100	0	99	100	100
22	Degree Xtra	1.5 qt/a	A							
22	Roundup PowerMax (IFN)	22 fl oz/a	C							
22	AMS (IFN)	8.5 lb/100 gal	C							
23	Acuron	1.5 qt/a	A	100	100	100	0	100	100	100
23	Halex GT	3.6 pt/a	C							
23	Surfactant	0.25 % v/v	C							
23	AMS	8.5 lb/100 gal	C							
24	Acuron	1.5 qt/a	A	100	100	100	0	100	100	100
24	Acuron	1.5 qt/a	C							
24	Roundup PowerMax	26 fl oz/a	C							
24	AMS	8.5 lb/100 gal	C							

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code			AMAPO	AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO
Crop Code			Jul-17-2018	Jul-17-2018	Jul-17-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018	Jul-30-2018
Rating Date			control	control	control	injury	control	control	control
Rating Type			percent	percent	percent	percent	percent	percent	percent
Rating Unit			22 DA-C	22 DA-C	22 DA-C	35 DA-C	35 DA-C	35 DA-C	35 DA-C
Trt-Eval Interval									
Trt No.	Treatment Name	Rate Rate Unit	Appl Code						
25	Bicep II Magnum	2.1 qt/a	A	100	100	100	0	100	100
25	Halex GT	3.6 pt/a	C						
25	Surfactant	0.25 % v/v	C						
25	AMS	8.5 lb/100 gal	C						
26	Weed Free			100	100	100	0	100	100
26	Roundup PowerMax	32 fl oz/a	B						
26	AMS	8.5 lb/100 gal	B						
26	Roundup PowerMax	32 fl oz/a	C						
26	AMS	8.5 lb/100 gal	C						
26	Roundup PowerMax	32 fl oz/a	D						
26	AMS	8.5 lb/100 gal	D						
LSD P=.05				0.7	1.5	0.5	.	3.6	2.7
Standard Deviation				0.5	1.1	0.4	0.0	2.5	1.9
CV				0.51	1.14	0.4	0.0	2.64	2.01

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code			AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code									
Rating Date			Jul-30-2018	Jul-30-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018
Rating Type			control	control	injury	control	control	control	control
Rating Unit			percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval			35 DA-C	35 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C
Trt No.	Treatment Name	Rate Rate Unit	Appl Code						
1	Corvus	3.3 fl oz/a	A	100	100	0	100	100	100
1	Harness Xtra 5.6L	1.8 qt/a	A						
2	Acuron	3 qt/a	A	100	100	0	99	100	100
3	Acuron Flexi	2.25 qt/a	A	100	100	0	97	100	100
4	Armezon PRO	1 pt/a	B	100	100	0	96	100	100
4	Atrazine	1.1 lb/a	B						
4	Roundup PowerMax	16 fl oz/a	B						
4	Surfactant	0.25 % v/v	B						
4	AMS	8.5 lb/100 gal	B						
5	Degree Xtra	2 qt/a	B	96	100	0	100	99	100
5	Roundup PowerMax	32 fl oz/a	B						
5	AMS	8.5 lb/100 gal	B						
6	Capreno	3 fl oz/a	B	94	100	0	100	75	100
6	Roundup PowerMax	22 fl oz/a	B						
6	AMS	8.5 lb/100 gal	B						
7	Anthem MAXX	2 fl oz/a	B	100	100	0	96	100	100
7	Atrazine	1.1 lb/a	B						
7	Callisto	2.5 fl oz/a	B						
7	Roundup PowerMax	22 fl oz/a	B						
7	COC	1 % v/v	B						
7	AMS	8.5 lb/100 gal	B						
8	Warrant	3 pt/a	B	96	100	0	100	98	100
8	Atrazine	0.55 lb/a	B						
8	Roundup PowerMax	22 fl oz/a	B						
8	AMS	8.5 lb/100 gal	B						
8	Roundup PowerMax (IFN)	22 fl oz/a	D						
8	AMS (IFN)	8.5 lb/100 gal	D						
9	Harness Max	64 fl oz/a	B	100	100	0	100	100	100
9	Atrazine	1.1 lb/a	B						
9	Roundup PowerMax	22 fl oz/a	B						
9	AMS	8.5 lb/100 gal	B						
10	Zidua SC	3.2 fl oz/a	A	100	100	0	99	100	100
10	Sharpen	2 fl oz/a	A						
10	Atrazine	1.1 lb/a	A						
10	Roundup PowerMax	32 fl oz/a	C						
10	AMS	8.5 lb/100 gal	C						
11	Zidua SC	3.2 fl oz/a	A	100	100	0	100	100	100
11	Atrazine	1.1 lb/a	A						
11	Roundup PowerMax	32 fl oz/a	C						
11	AMS	8.5 lb/100 gal	C						
12	Zidua SC	3.2 fl oz/a	A	100	100	0	100	100	100
12	Callisto	3 fl oz/a	A						
12	Atrazine	1.1 lb/a	A						
12	Roundup PowerMax	32 fl oz/a	C						
12	AMS	8.5 lb/100 gal	C						

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code			AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code			Jul-30-2018	Jul-30-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018
Rating Date			control	control	injury	control	control	control	control
Rating Type			percent	percent	percent	percent	percent	percent	percent
Rating Unit			35 DA-C	35 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C
Trt-Eval Interval									
Trt No.	Treatment Name	Rate Rate Unit	Appl Code						
13	Verdict	10 fl oz/a	A	100	100	0	100	100	100
13	Atrazine	1.1 lb/a	A						
13	Roundup PowerMax	32 fl oz/a	C						
13	AMS	8.5 lb/100 gal	C						
14	Untreated			0	0	0	0	0	0
15	Balance Flexx	4 fl oz/a	A	100	100	0	99	100	100
15	DiFlexx Duo	24 fl oz/a	C						
15	Roundup PowerMax	22 fl oz/a	C						
15	AMS	8.5 lb/100 gal	C						
16	SureStart II	1.25 qt/a	A	100	100	0	100	100	100
16	Keystone NXT	1.25 qt/a	A						
16	Durango DMA	32 fl oz/a	C						
16	AMS	8.5 lb/100 gal	C						
17	Resicore	2.25 qt/a	A	100	100	0	100	100	100
17	Atrazine	1.1 lb/a	A						
17	Durango DMA	32 fl oz/a	C						
17	AMS	8.5 lb/100 gal	C						
18	Keystone NXT	2 qt/a	A	100	100	0	100	100	100
18	Instigate	5.2 oz/a	A						
18	Durango DMA	32 fl oz/a	C						
18	AMS	8.5 lb/100 gal	C						
19	Keystone NXT	2 qt/a	A	100	100	0	100	100	100
19	Realm Q	4 oz/a	C						
19	Durango DMA	32 fl oz/a	C						
19	AMS	8.5 lb/100 gal	C						
20	Anthem MAXX	4 fl oz/a	A	100	100	0	99	100	100
20	Atrazine	1.1 lb/a	A						
20	Callisto	2.5 fl oz/a	C						
20	Atrazine	0.55 lb/a	C						
20	Roundup PowerMax	22 fl oz/a	C						
20	COC	1 % v/v	C						
20	AMS	8.5 lb/100 gal	C						
21	Degree Xtra	2 qt/a	A	100	100	0	100	100	100
21	Status	2 oz/a	C						
21	Roundup PowerMax	22 fl oz/a	C						
21	AMS	8.5 lb/100 gal	C						
22	TripleFLEX II	1 qt/a	A	100	100	0	100	100	100
22	Degree Xtra	1.5 qt/a	A						
22	Roundup PowerMax (IFN)	22 fl oz/a	C						
22	AMS (IFN)	8.5 lb/100 gal	C						
23	Acuron	1.5 qt/a	A	100	100	0	100	100	100
23	Halex GT	3.6 pt/a	C						
23	Surfactant	0.25 % v/v	C						
23	AMS	8.5 lb/100 gal	C						
24	Acuron	1.5 qt/a	A	100	100	0	100	100	100
24	Acuron	1.5 qt/a	C						
24	Roundup PowerMax	26 fl oz/a	C						
24	AMS	8.5 lb/100 gal	C						

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code			AMBEL	ABUTH	ZEAMX	ANGR	CHEAL	AMAPO	AMBEL
Crop Code									
Rating Date			Jul-30-2018	Jul-30-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018	Aug-10-2018
Rating Type			control	control	injury	control	control	control	control
Rating Unit			percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval			35 DA-C	35 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C	46 DA-C
Trt No.	Treatment Name	Rate Rate Unit	Appl Code						
25	Bicep II Magnum	2.1 qt/a	A	100	100	0	100	100	100
25	Halex GT	3.6 pt/a	C						
25	Surfactant	0.25 % v/v	C						
25	AMS	8.5 lb/100 gal	C						
26	Weed Free			100	100	0	100	100	100
26	Roundup PowerMax	32 fl oz/a	B						
26	AMS	8.5 lb/100 gal	B						
26	Roundup PowerMax	32 fl oz/a	C						
26	AMS	8.5 lb/100 gal	C						
26	Roundup PowerMax	32 fl oz/a	D						
26	AMS	8.5 lb/100 gal	D						
LSD P=.05				3.6	0.5	.	3.0	5.0	.
Standard Deviation				2.6	0.3	0.0	2.2	3.5	0.0
CV				2.69	0.36	0.0	2.26	3.7	0.0

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code	ABUTH						
	Crop Code	ZEAMX	ZEAMX	ZEAMX			
Rating Date	Aug-10-2018	Oct-25-2018	Oct-25-2018	Oct-25-2018			
Rating Type	control	test wieght	moisture	YIELD			
Rating Unit	percent	lbs/bu	percent	BU			
Trt-Eval Interval	46 DA-C	122 DA-C	122 DA-C	at 15% M			
Trt No.	Treatment Name	Rate Rate Unit	Appl Code				
1	Corvus	3.3 fl oz/a	A	100	51.2	21.5	237.9
1	Harness Xtra 5.6L	1.8 qt/a	A				
2	Acuron	3 qt/a	A	100	50.6	22.1	239.8
3	Acuron Flexi	2.25 qt/a	A	100	51.1	22.3	240.4
4	Armezon PRO	1 pt/a	B	100	50.7	21.6	243.0
4	Atrazine	1.1 lb/a	B				
4	Roundup PowerMax	16 fl oz/a	B				
4	Surfactant	0.25 % v/v	B				
4	AMS	8.5 lb/100 gal	B				
5	Degree Xtra	2 qt/a	B	99	50.9	21.6	243.0
5	Roundup PowerMax	32 fl oz/a	B				
5	AMS	8.5 lb/100 gal	B				
6	Capreno	3 fl oz/a	B	100	50.8	21.1	236.0
6	Roundup PowerMax	22 fl oz/a	B				
6	AMS	8.5 lb/100 gal	B				
7	Anthem MAXX	2 fl oz/a	B	100	51.6	21.2	244.8
7	Atrazine	1.1 lb/a	B				
7	Callisto	2.5 fl oz/a	B				
7	Roundup PowerMax	22 fl oz/a	B				
7	COC	1 % v/v	B				
7	AMS	8.5 lb/100 gal	B				
8	Warrant	3 pt/a	B	100	50.5	22.6	239.6
8	Atrazine	0.55 lb/a	B				
8	Roundup PowerMax	22 fl oz/a	B				
8	AMS	8.5 lb/100 gal	B				
8	Roundup PowerMax (IFN)	22 fl oz/a	D				
8	AMS (IFN)	8.5 lb/100 gal	D				
9	Harness Max	64 fl oz/a	B	100	50.6	21.1	239.4
9	Atrazine	1.1 lb/a	B				
9	Roundup PowerMax	22 fl oz/a	B				
9	AMS	8.5 lb/100 gal	B				
10	Zidua SC	3.2 fl oz/a	A	100	51.0	22.0	237.5
10	Sharpen	2 fl oz/a	A				
10	Atrazine	1.1 lb/a	A				
10	Roundup PowerMax	32 fl oz/a	C				
10	AMS	8.5 lb/100 gal	C				
11	Zidua SC	3.2 fl oz/a	A	100	51.2	22.1	229.5
11	Atrazine	1.1 lb/a	A				
11	Roundup PowerMax	32 fl oz/a	C				
11	AMS	8.5 lb/100 gal	C				
12	Zidua SC	3.2 fl oz/a	A	100	51.1	22.8	238.5
12	Callisto	3 fl oz/a	A				
12	Atrazine	1.1 lb/a	A				
12	Roundup PowerMax	32 fl oz/a	C				
12	AMS	8.5 lb/100 gal	C				

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code	ABUTH						
Crop Code	ZEAMX		ZEAMX		ZEAMX		
Rating Date	Aug-10-2018	Oct-25-2018	Oct-25-2018	Oct-25-2018	Oct-25-2018	Oct-25-2018	
Rating Type	control	test wieght	moisture	YIELD			
Rating Unit	percent	lbs/bu	percent	BU			
Trt-Eval Interval	46 DA-C	122 DA-C	122 DA-C	at 15% M			
Trt No.	Treatment Name	Rate Rate Unit	Appl Code				
13	Verdict	10 fl oz/a	A	100	51.2	21.7	233.4
13	Atrazine	1.1 lb/a	A				
13	Roundup PowerMax	32 fl oz/a	C				
13	AMS	8.5 lb/100 gal	C				
14	Untreated			0	50.8	23.0	210.3
15	Balance Flexx	4 fl oz/a	A	100	51.5	21.6	240.1
15	DiFlexx Duo	24 fl oz/a	C				
15	Roundup PowerMax	22 fl oz/a	C				
15	AMS	8.5 lb/100 gal	C				
16	SureStart II	1.25 qt/a	A	100	50.6	23.2	239.4
16	Keystone NXT	1.25 qt/a	A				
16	Durango DMA	32 fl oz/a	C				
16	AMS	8.5 lb/100 gal	C				
17	Resicore	2.25 qt/a	A	100	50.3	21.7	237.4
17	Atrazine	1.1 lb/a	A				
17	Durango DMA	32 fl oz/a	C				
17	AMS	8.5 lb/100 gal	C				
18	Keystone NXT	2 qt/a	A	100	50.8	21.9	225.7
18	Instigate	5.2 oz/a	A				
18	Durango DMA	32 fl oz/a	C				
18	AMS	8.5 lb/100 gal	C				
19	Keystone NXT	2 qt/a	A	100	51.5	22.4	233.5
19	Realm Q	4 oz/a	C				
19	Durango DMA	32 fl oz/a	C				
19	AMS	8.5 lb/100 gal	C				
20	Anthem MAXX	4 fl oz/a	A	100	50.5	22.1	232.1
20	Atrazine	1.1 lb/a	A				
20	Callisto	2.5 fl oz/a	C				
20	Atrazine	0.55 lb/a	C				
20	Roundup PowerMax	22 fl oz/a	C				
20	COC	1 % v/v	C				
20	AMS	8.5 lb/100 gal	C				
21	Degree Xtra	2 qt/a	A	100	51.4	22.1	234.1
21	Status	2 oz/a	C				
21	Roundup PowerMax	22 fl oz/a	C				
21	AMS	8.5 lb/100 gal	C				
22	TripleFLEX II	1 qt/a	A	100	50.9	21.9	231.8
22	Degree Xtra	1.5 qt/a	A				
22	Roundup PowerMax (IFN)	22 fl oz/a	C				
22	AMS (IFN)	8.5 lb/100 gal	C				
23	Acuron	1.5 qt/a	A	100	50.8	21.7	227.8
23	Halex GT	3.6 pt/a	C				
23	Surfactant	0.25 % v/v	C				
23	AMS	8.5 lb/100 gal	C				
24	Acuron	1.5 qt/a	A	100	50.7	22.1	229.5
24	Acuron	1.5 qt/a	C				
24	Roundup PowerMax	26 fl oz/a	C				
24	AMS	8.5 lb/100 gal	C				

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.

# Michigan State University

## Commercial programs for weed control in corn

Trial ID: C01-18      Location: Campus T-17      Trial Year: 2018  
 Protocol ID: C01-18      Investigator: Erin Burns  
 Project ID:      Study Director: Burns, Stiles, Powell, Craft  
 Sponsor Contact:

Pest Code	ABUTH						
Crop Code		ZEAMX	ZEAMX	ZEAMX			
Rating Date	Aug-10-2018	Oct-25-2018	Oct-25-2018	Oct-25-2018			
Rating Type	control	test wieght	moisture	YIELD			
Rating Unit	percent	lbs/bu	percent	BU			
Trt-Eval Interval	46 DA-C	122 DA-C	122 DA-C	at 15% M			
Trt No.	Treatment Name	Rate Rate Unit	Appl Code				
25	Bicep II Magnum	2.1 qt/a	A	100	50.8	21.2	236.0
25	Halex GT	3.6 pt/a	C				
25	Surfactant	0.25 % v/v	C				
25	AMS	8.5 lb/100 gal	C				
26	Weed Free			100	51.4	22.1	231.8
26	Roundup PowerMax	32 fl oz/a	B				
26	AMS	8.5 lb/100 gal	B				
26	Roundup PowerMax	32 fl oz/a	C				
26	AMS	8.5 lb/100 gal	C				
26	Roundup PowerMax	32 fl oz/a	D				
26	AMS	8.5 lb/100 gal	D				
LSD P=.05				0.5	1.11	1.23	13.82
Standard Deviation				0.3	0.79	0.87	9.81
CV				0.36	1.54	3.98	4.17

Could not calculate LSD (% mean diff) for columns 1,7,13,19,22,25,28 because error mean square = 0.