

Trial ID: 19CORNSHOW Location: Trial Year: 2019
 Protocol ID: Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

General Trial Information**Investigator:** Dr. Mark M. Loux**Trial Status:** E established**ARM Trial Created On:** Apr-11-2019**Trial Location**

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.85717 N
Longitude of LL Corner °: 83.67007 W
Altitude of LL Corner: 1089.00 ft

Conducted Under GLP: No**Conducted Under GEP:** No**Investigator:** Dr. Mark M. Loux**Crop Description****Crop 1:** C ZEAMX Zea mays Corn**Entry Date:** Apr-15-2019**Variety:** Pioneer P1197AM**Attributes:** RR/LL**Planting Date:** Apr-12-2019**Depth:** 1.5 IN**Rows per Plot:** 4**Row Spacing:** 30 IN**Soil Temperature:** 58 F**Emergence Date:** Apr-26-2019**Planting Rate:** 32097 S/A**Planting Method:** SEEDED seeded
Planting Equipment: FPP finger pickup planter**Seed Bed:** SMOOTH smooth**Soil Moisture:** SLIDRY slightly dry**Pest Description****Pest 1 Type:** W **Code:** SETFA *Setaria faberi***Common Name:** Giant foxtail**Entry Date:** May-14-2019**Pest 2 Type:** W **Code:** AMBTR *Ambrosia trifida***Common Name:** Giant ragweed**Entry Date:** May-14-2019**Pest 3 Type:** W **Code:** AMARE *Amaranthus retroflexus***Common Name:** Redroot pigweed**Entry Date:** May-14-2019**Pest 4 Type:** W **Code:** CHEAL *Chenopodium album***Common Name:** common lambsquarters**Entry Date:** May-14-2019**Pest 5 Type:** W **Code:** ABUTH *Abutilon theophrasti***Common Name:** velvetleaf**Entry Date:** May-14-2019**Pest 6 Type:** W **Code:** POLPY *Persicaria pensylvanica***Common Name:** annual smartweed**Entry Date:** Jun-7-2019**Pest 7 Type:** W **Code:** ECHCG *Echinochloa crus-galli***Common Name:** Common barnyard grass**Entry Date:** Jun-7-2019**Site and Design****Treated Plot Width:** 10 FT**Treated Plot Length:** 30 FT**Treated Plot Area:** 300 FT² **Treatments:** 14**Replications:** 4**Site Type:** FIELD field**Experimental Unit:** 1 PLOT plot**Tillage Type:** CONTIL conventional-till**Study Design:** RACOB� Randomized Complete Block (RCB)**Trial Initiation Comments:****Previous**

No. Crop Year
 1. SOYBEAN 2018

Field Prep./Maintenance:

Fall chisel, spring finishing tool and cultipacker

Soil Description

Description Name: Big E
% Sand: 45 **% OM:** 3.1 **Texture:** L loam
% Silt: 45 **pH:** 6.6 **Soil Name:** Kokomo
% Clay: 11 **CEC:** 15.2 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B	C
Application Date	Apr-13-2019	May-14-2019	May-29-2019
Appl. Start Time	8:00 AM	9:30 AM	8:15 AM
Appl. Stop Time	8:15 AM	10:00 AM	8:45 AM
Application Method	SPRAY	SPRAY	SPRAY
Application Timing	PRE	POEMSE	POEMCR
Application Placement	BROSOI	BROFOL	BANFOL
Applied By	Dobbels	Kiley	Osburn
Appl. Entry Date	Apr-15-2019	May-14-2019	May-29-2019
Air Temperature Start, Stop	43 44 F	51 55 F	72 73 F
% Relative Humidity Start, Stop	77 77	78 64	82 83
Wind Velocity+Dir. Start	3 MPH W	9 MPH NW	11 MPH SW
Wind Velocity+Dir. Stop	3 MPH W	8 MPH NW	12 MPH SW
Wind Velocity+Dir. Max	3 MPH W	9 MPH NW	11 MPH SW
Wet Leaves (Y/N)	N no	N no	N no
Soil Temperature	46 F	47 F	69 F
Soil Moisture	DRY	WET	SLIWET
Soil Surface Condition	SMOOTH	SMOOTH	SMOOTH
% Cloud Cover	20	0	80
Next Moisture Occurred On	Apr-14-2019	May-16-2019	May-29-2019
Time to Next Moisture	1 DAY	2 DAY	30 MIN
Moisture 6 Hours after Appl.	0 IN	0 IN	0.001 IN
Moisture 1 Week after Appl.	2.35 IN	2.14 IN	0.66 IN

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Days after Emergence	-13		18		33	
Stage Scale Used					VR	
Stage Majority, Percent			V3 100		V4 100	
Height Average			3 IN		8 IN	
Height Minimum, Maximum					8 10	

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale	SETFA W	SETFA W	SETFA W
Stage Majority, Percent	11	100	12 100
Height Average	1.5	in	2 in
Height Minimum, Maximum	1	1.5	1 3
Density Average	78	M2	78 M2
Density Min, Max	48	112	48 112
Pest 2 Code, Type, Scale	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent	12	100	18 50
Stage Minimum, Percent			14
Stage Maximum, Percent			18
Height Average	2	in	6 in
Height Minimum, Maximum	1	2	3 12
Density Average	31	M2	31 M2
Density Min, Max	20	44	20 44
Pest 3 Code, Type, Scale	AMARE W	AMARE W	AMARE W
Stage Majority, Percent	14	100	
Height Average	0.5	in	
Height Minimum, Maximum	0.25	0.5	
Density Average	1	M2	
Pest 4 Code, Type, Scale	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent	14	100	14
Stage Minimum, Percent			14
Stage Maximum, Percent			16
Height Average	1	in	3 in
Height Minimum, Maximum	0.5	1	1 3
Density Average	10	M2	10 M2
Density Min, Max	4	20	4 20
Pest 5 Code, Type, Scale	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent	13	100	14 80
Stage Minimum, Percent			12 20
Stage Maximum, Percent			80
Height Average	1	in	1 in
Height Minimum, Maximum	0.5	1	1 3
Density Average	4	M2	4 M2
Density Min, Max	4	8	4 8
Pest 6 Code, Type, Scale	POLPY W	POLPY W	POLPY W
Stage Majority, Percent	13	100	
Height Average	2	IN	
Height Minimum, Maximum	2	3	
Density Average	1	M2	
Density Min, Max	0	4	
Pest 7 Code, Type, Scale	ECHCG W	ECHCG W	ECHCG W
Stage Majority, Percent			13 100
Height Average			3 IN
Height Minimum, Maximum			3 6
Density Average			12 M2
Density Min, Max			4 18

Application Equipment

	A	B	C
Appl. Equipment	6 foot TTI	10' AI XR	10' AI XR
Equipment Type	SPRBAC	SPRBAC	SPRBAC
Operation Pressure	42 PSI	42 PSI	42 PSI
Nozzle Type	TTI	AI XR	AI XR
Nozzle Size	110015	110015	110015
Nozzle Spacing	18 IN	18 IN	18 IN
Boom Length	6.67 FT	10 FT	10 FT
Boom Height	20 IN	20 IN	20 IN
Ground Speed	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER
Application Amount	15 GPA	15 GPA	15 GPA
Mix Size	1 Liters	2 Liters	2 Liters
Propellant	COMCO2	COMCO2	COMCO2

Date	By	Context	Notes
Apr-11-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
May-14-2019	Dr. Mark M. Loux	STATUS	Automatically added by ARM: Trial Status updated to 'E' when Application Date entered.

SE Definitions

- Crop Type, Code C**

The Ohio State University

Trial ID: 19CORNSHOW Location: Trial Year: 2019
 Protocol ID: Investigator: Dr. Mark M. Loux
 Project ID: Study Director:
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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Name	Giant foxtail	Giant common lambsqu>		Redroot pigweed	velvetleaf
Crop Type, Code	C -	C -	C -	C -	C -
Crop Name					
Rating Date	May-28-2019	May-28-2019	May-28-2019	May-28-2019	May-28-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-29-2019	May-29-2019	May-29-2019	May-29-2019	May-29-2019
Days After First/Last Applic.	45 14	45 14	45 14	45 14	45 14
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	AT POST
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1
Number of Decimals	0	0	0	0	0

Trt Treatment	Rate	Rate	Other	Other	Appl	1*	2*	3*	4*	5*
No. Name	Unit	Unit	Rate	Rate	Unit Code					
1 Resicore	2.06 lb ai/a	2.5 qt/a			A	99 a	81 ab	100 a	100 -	100 a
1 Atrazine	1 lb ai/a	1 qt/a			A					
1 Durango DMA	1 lb ae/a	32 oz/a			C					
1 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
2 Surestart II	1.56 lb ai/a	3 pt/a			A	100 a	78 abc	100 a	100 -	98 a
2 Atrazine	1.5 lb ai/a	1.5 qt/a			A					
2 Durango DMA	1 lb ae/a	32 oz/a			C					
2 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
3 Resicore	1.03 lb ai/a	1.25 qt/a			A	93 a	74 abc	100 a	100 -	100 a
3 Atrazine	1 lb ai/a	1 qt/a			A					
3 Resicore	1.03 lb ai/a	1.25 qt/a			C					
3 Durango DMA	1 lb ae/a	32 oz/a			C					
3 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
4 Cinch ATZ	2.9 lb ai/a	2.1 qt/a			A	100 a	55 cd	100 a	100 -	90 a
4 REALM Q 4 OZ					C					
4 rimsulfuon	0.0188 lb ai/a	1.2 oz/a			C					
4 mesotrione	0.078 lb ai/a	2.5 oz/a			C					
4 isoxadifin-ethyl	0.0047 lb ai/a	0.15 oz/a			C					
4 Atrazine	0.5 lb ai/a	16 oz/a			C					
4 COC	1 % v/v	1 % v/v			C					
4 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
5 Acuron	2.58 lb ai/a	3 qt/a			A	100 a	81 ab	100 a	100 -	100 a
6 Acuron	1.29 lb ai/a	1.5 qt/a			A	95 a	64 bc	100 a	100 -	100 a
6 Halex GT	1.97 lb ai/a	3.6 pt/a			C					
6 AAtrex	0.5 lb ai/a	1 pt/a			C					
6 NIS	0.25 % v/v	0.25 % v/v			C					
6 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
7 Bicep II Magnum	1.79 lb ai/a	1.3 qt/a			A	94 a	38 d	93 a	100 -	90 a
7 Halex GT	1.97 lb ai/a	3.6 pt/a			C					
7 AAtrex	0.5 lb ai/a	1 pt/a			C					
7 NIS	0.25 % v/v	0.25 % v/v			C					
7 N Pak AMS	2.5 % v/v	2.5 % v/v			C					
8 Halex GT	2.2 lb ai/a	4 pt/a			C	0 b	0 e	0 b	0 -	0 b
8 AAtrex	0.5 lb ai/a	1 pt/a			C					
8 NIS	0.25 % v/v	0.25 % v/v			C					
8 N Pak AMS	2.5 % v/v	2.5 % v/v			C					

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,9,10,11,14,15,16 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE	ABUTH
Pest Name	Giant foxtail	Giant common lambsqu>		Redroot pigweed	velvetleaf
Crop Type, Code	C -	C -	C -	C -	C -
Crop Name					
Rating Date	May-28-2019	May-28-2019	May-28-2019	May-28-2019	May-28-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	May-29-2019	May-29-2019	May-29-2019	May-29-2019	May-29-2019
Days After First/Last Applic.	45 14	45 14	45 14	45 14	45 14
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST	AT POST
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1	32 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*	5*
9	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	95 a	55 cd	95 a	100 -	95 a
	9 ImpactZ	0.356	lb ai/a	10.7	oz/a	C					
	9 MSO	1 %	v/v	19.2	oz/a	C					
	9 N Pak AMS	2.5 %	v/v	3	pt/a	C					
10	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	100 a	58 cd	100 a	100 -	100 a
	10 ImpactZ	0.266	lb ai/a	8	oz/a	C					
	10 Liberty	0.402	lb ai/a	22	oz/a	C					
	10 MSO	0.5 %	v/v	9.6	oz/a	C					
	10 N Pak AMS	2.5 %	v/v	3	pt/a	C					
11	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	99 a	65 bc	100 a	100 -	100 a
	11 Shieldex	0.035	lb ai/a	1.35	oz/a	C					
	11 Atrazine	0.335	lb ai/a	0.67	pt/a	C					
	11 MSO	1 %	v/v	19.2	oz/a	C					
	11 N Pak AMS	2.5 %	v/v	3	pt/a	C					
12	Harness	1.53	lb ai/a	1.75	pt/a	B	100 a	93 a	100 a	100 -	100 a
	12 Impact	0.0219	lb ai/a	1	oz/a	B					
	12 Atrazine	0.5	lb ai/a	1	pt/a	B					
	12 MSO	1 %	v/v	19.2	oz/a	B					
	12 N Pak AMS	2.5 %	v/v	3	pt/a	B					
13	Harness	1.53	lb ai/a	1.75	pt/a	B	100 a	90 a	100 a	100 -	100 a
	13 Impact	0.0164	lb ai/a	0.75	oz/a	B					
	13 Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
	13 Atrazine	0.5	lb ai/a	1	pt/a	B					
	13 MSO	0.25 %	v/v	4.8	oz/a	B					
	13 N Pak AMS	2.5 %	v/v	3	pt/a	B					
14	UTC						0 b	0 e	0 b	0 -	0 b
LSD P=.05							6.3	15.3	7.0	.	11.9
Standard Deviation							4.4	10.7	4.9	0.0	8.3
CV							5.27	18.02	5.75	0.0	9.93
Levene's F							1.082	0.978	0.929	0.00	0.825
Levene's Prob(F)							0.40	0.488	0.533	.	0.632
Skewness							-2.0111*	-0.8758*	-2.0313*	-2.0979*	-1.9289*
Kurtosis							2.2535*	-0.1786	2.2915*	2.4886*	1.9608*
Replicate F							6.714	0.649	0.676	0.000	0.370
Replicate Prob(F)							0.0009	0.5883	0.5718	1.0000	0.7751
Treatment F							259.583	30.016	218.249	0.000	73.535
Treatment Prob(F)							0.0001	0.0001	0.0001	1.0000	0.0001

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Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL	AMARE
Pest Name		Giant foxtail	Giant ragweed	common lambsqu	Redroot pigweed
Crop Type, Code	C ZEAMX	C -	C -	C -	C -
Crop Name	Corn				
Rating Date	Jun-5-2019	Jun-11-2019	Jun-11-2019	Jun-11-2019	Jun-11-2019
Rating Type	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-5-2019	Jun-13-2019	Jun-13-2019	Jun-13-2019	Jun-13-2019
Days After First/Last Applic.	53 7	59 13	59 13	59 13	59 13
Trt-Eval Interval	7 DA-C	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Days After Emergence	40 DE-1	46 DE-1	46 DE-1	46 DE-1	46 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*	10*
1	Resicore	2.06 lb	ai/a	2.5 qt/a		A	0 -	100 a	89 ab	100 -	100 -
1	Atrazine	1 lb	ai/a	1 qt/a		A					
1	Durango DMA	1 lb	ae/a	32 oz/a		C					
1	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
2	Surestart II	1.56 lb	ai/a	3 pt/a		A	0 -	100 a	88 ab	100 -	100 -
2	Atrazine	1.5 lb	ai/a	1.5 qt/a		A					
2	Durango DMA	1 lb	ae/a	32 oz/a		C					
2	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
3	Resicore	1.03 lb	ai/a	1.25 qt/a		A	1 -	100 a	94 a	100 -	100 -
3	Atrazine	1 lb	ai/a	1 qt/a		A					
3	Resicore	1.03 lb	ai/a	1.25 qt/a		C					
3	Durango DMA	1 lb	ae/a	32 oz/a		C					
3	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
4	Cinch ATZ	2.9 lb	ai/a	2.1 qt/a		A	2 -	100 a	90 ab	100 -	100 -
4	REALM Q 4 OZ					C					
4	rimsulfuon	0.0188 lb	ai/a	1.2 oz/a		C					
4	mesotrione	0.078 lb	ai/a	2.5 oz/a		C					
4	isoxadifin-ethyl	0.0047 lb	ai/a	0.15 oz/a		C					
4	Atrazine	0.5 lb	ai/a	16 oz/a		C					
4	COC	1 %	v/v	1 % v/v		C					
4	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
5	Acuron	2.58 lb	ai/a	3 qt/a		A	0 -	100 a	76 b	100 -	100 -
6	Acuron	1.29 lb	ai/a	1.5 qt/a		A	1 -	100 a	90 ab	100 -	100 -
6	Halex GT	1.97 lb	ai/a	3.6 pt/a		C					
6	AAtrex	0.5 lb	ai/a	1 pt/a		C					
6	NIS	0.25 %	v/v	0.25 % v/v		C					
6	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
7	Bicep II Magnum	1.79 lb	ai/a	1.3 qt/a		A	0 -	100 a	84 ab	100 -	100 -
7	Halex GT	1.97 lb	ai/a	3.6 pt/a		C					
7	AAtrex	0.5 lb	ai/a	1 pt/a		C					
7	NIS	0.25 %	v/v	0.25 % v/v		C					
7	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
8	Halex GT	2.2 lb	ai/a	4 pt/a		C	0 -	100 a	91 ab	100 -	100 -
8	AAtrex	0.5 lb	ai/a	1 pt/a		C					
8	NIS	0.25 %	v/v	0.25 % v/v		C					
8	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	AMARE
Pest Name	Giant foxtail	Giant ragweed	common lambsqu	Redroot pigweed
Crop Type, Code	C ZEAMX	C -	C -	C -
Crop Name	Corn			
Rating Date	Jun-5-2019	Jun-11-2019	Jun-11-2019	Jun-11-2019
Rating Type	PHYCHL	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-5-2019	Jun-13-2019	Jun-13-2019	Jun-13-2019
Days After First/Last Applic.	53 7	59 13	59 13	59 13
Trt-Eval Interval	7 DA-C	28 DA-B	28 DA-B	28 DA-B
Days After Emergence	40 DE-1	46 DE-1	46 DE-1	46 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	6*	7*	8*	9*	10*
9	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	0 -	99 a	89 ab	100 -	100 -
9	ImpactZ	0.356	lb ai/a	10.7	oz/a	C					
9	MSO	1 %	v/v	19.2	oz/a	C					
9	N Pak AMS	2.5 %	v/v	3	pt/a	C					
10	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	0 -	100 a	90 ab	100 -	100 -
10	ImpactZ	0.266	lb ai/a	8	oz/a	C					
10	Liberty	0.402	lb ai/a	22	oz/a	C					
10	MSO	0.5 %	v/v	9.6	oz/a	C					
10	N Pak AMS	2.5 %	v/v	3	pt/a	C					
11	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	0 -	100 a	84 ab	100 -	100 -
11	Shieldex	0.035	lb ai/a	1.35	oz/a	C					
11	Atrazine	0.335	lb ai/a	0.67	pt/a	C					
11	MSO	1 %	v/v	19.2	oz/a	C					
11	N Pak AMS	2.5 %	v/v	3	pt/a	C					
12	Harness	1.53	lb ai/a	1.75	pt/a	B	0 -	100 a	79 ab	100 -	100 -
12	Impact	0.0219	lb ai/a	1	oz/a	B					
12	Atrazine	0.5	lb ai/a	1	pt/a	B					
12	MSO	1 %	v/v	19.2	oz/a	B					
12	N Pak AMS	2.5 %	v/v	3	pt/a	B					
13	Harness	1.53	lb ai/a	1.75	pt/a	B	0 -	100 a	84 ab	100 -	100 -
13	Impact	0.0164	lb ai/a	0.75	oz/a	B					
13	Roundup Powermax	1.13	lb ae/a	32	oz/a	B					
13	Atrazine	0.5	lb ai/a	1	pt/a	B					
13	MSO	0.25 %	v/v	4.8	oz/a	B					
13	N Pak AMS	2.5 %	v/v	3	pt/a	B					
14	UTC						0 -	0 b	0 c	0 -	0 -
LSD P=.05		1.1		1.0				10.1		.	.
Standard Deviation		0.7		0.7				7.0		0.0	0.0
CV		344.18		0.74				8.75		0.0	0.0
Levene's F		2.615		0.97				0.724		0.00	0.00
Levene's Prob(F)		0.009*		0.495				0.729		.	.
Skewness		3.4205*		-3.4166*				-2.8105*		-3.4205*	-3.4205*
Kurtosis		10.0581*		10.0402*				7.3613*		10.0581*	10.0581*
Replicate F		0.788		0.863				1.858		0.000	0.000
Replicate Prob(F)		0.5080		0.4683				0.1527		1.0000	1.0000
Treatment F		1.545		6080.649				45.191		0.000	0.000
Treatment Prob(F)		0.1448		0.0001				0.0001		1.0000	1.0000

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* Adjusted means
Could not calculate LSD (% mean diff) for columns 4,9,10,11,14,15,16 because error mean square = 0.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	common lambsqu	Redroot pigweed
Crop Type, Code	C -	C -	C -	C -	C -
Crop Name					
Rating Date	Jun-11-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-13-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019
Days After First/Last Applic.	59 13	96 50	96 50	96 50	96 50
Trt-Eval Interval	28 DA-B	50 DA-C	50 DA-C	50 DA-C	50 DA-C
Days After Emergence	46 DE-1	83 DE-1	83 DE-1	83 DE-1	83 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	11*	12*	13*	14*	15*
1	Resicore	2.06 lb	ai/a	2.5 qt/a		A	100 -	96 a	84 -	100 -	100 -
1	Atrazine	1 lb	ai/a	1 qt/a		A					
1	Durango DMA	1 lb	ae/a	32 oz/a		C					
1	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
2	Surestart II	1.56 lb	ai/a	3 pt/a		A	100 -	100 a	86 -	100 -	100 -
2	Atrazine	1.5 lb	ai/a	1.5 qt/a		A					
2	Durango DMA	1 lb	ae/a	32 oz/a		C					
2	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
3	Resicore	1.03 lb	ai/a	1.25 qt/a		A	100 -	100 a	98 -	100 -	100 -
3	Atrazine	1 lb	ai/a	1 qt/a		A					
3	Resicore	1.03 lb	ai/a	1.25 qt/a		C					
3	Durango DMA	1 lb	ae/a	32 oz/a		C					
3	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
4	Cinch ATZ	2.9 lb	ai/a	2.1 qt/a		A	100 -	100 a	85 -	100 -	100 -
4	REALM Q 4 OZ					C					
4	rimsulfuon	0.0188 lb	ai/a	1.2 oz/a		C					
4	mesotrione	0.078 lb	ai/a	2.5 oz/a		C					
4	isoxadifin-ethyl	0.0047 lb	ai/a	0.15 oz/a		C					
4	Atrazine	0.5 lb	ai/a	16 oz/a		C					
4	COC	1 %	v/v	1 % v/v		C					
4	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
5	Acuron	2.58 lb	ai/a	3 qt/a		A	100 -	100 a	77 -	100 -	100 -
6	Acuron	1.29 lb	ai/a	1.5 qt/a		A	100 -	100 a	92 -	100 -	100 -
6	Halex GT	1.97 lb	ai/a	3.6 pt/a		C					
6	AAtrex	0.5 lb	ai/a	1 pt/a		C					
6	NIS	0.25 %	v/v	0.25 % v/v		C					
6	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
7	Bicep II Magnum	1.79 lb	ai/a	1.3 qt/a		A	100 -	100 a	82 -	100 -	100 -
7	Halex GT	1.97 lb	ai/a	3.6 pt/a		C					
7	AAtrex	0.5 lb	ai/a	1 pt/a		C					
7	NIS	0.25 %	v/v	0.25 % v/v		C					
7	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					
8	Halex GT	2.2 lb	ai/a	4 pt/a		C	100 -	91	86 -	100 -	100 -
8	AAtrex	0.5 lb	ai/a	1 pt/a		C					
8	NIS	0.25 %	v/v	0.25 % v/v		C					
8	N Pak AMS	2.5 %	v/v	2.5 % v/v		C					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	SETFA	AMBTR	CHEAL	AMARE
Pest Name	velvetleaf	Giant foxtail	Giant ragweed	common lambsqu	Redroot pigweed
Crop Type, Code	C -	C -	C -	C -	C -
Crop Name					
Rating Date	Jun-11-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-13-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019	Jul-18-2019
Days After First/Last Applic.	59 13	96 50	96 50	96 50	96 50
Trt-Eval Interval	28 DA-B	50 DA-C	50 DA-C	50 DA-C	50 DA-C
Days After Emergence	46 DE-1	83 DE-1	83 DE-1	83 DE-1	83 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate	Unit	Appl Code	11*	12*	13*	14*	15*
9	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a		A	100 -	95 a	86 -	100 -	100 -
9	ImpactZ	0.356	lb ai/a	10.7	oz/a		C					
9	MSO	1 %	v/v	19.2	oz/a		C					
9	N Pak AMS	2.5 %	v/v	3	pt/a		C					
10	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a		A	100 -	100 a	84 -	100 -	100 -
10	ImpactZ	0.266	lb ai/a	8	oz/a		C					
10	Liberty	0.402	lb ai/a	22	oz/a		C					
10	MSO	0.5 %	v/v	9.6	oz/a		C					
10	N Pak AMS	2.5 %	v/v	3	pt/a		C					
11	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a		A	100 -	100 a	81 -	100 -	100 -
11	Shieldex	0.035	lb ai/a	1.35	oz/a		C					
11	Atrazine	0.335	lb ai/a	0.67	pt/a		C					
11	MSO	1 %	v/v	19.2	oz/a		C					
11	N Pak AMS	2.5 %	v/v	3	pt/a		C					
12	Harness	1.53	lb ai/a	1.75	pt/a		B	100 -	100 a	80 -	100 -	100 -
12	Impact	0.0219	lb ai/a	1	oz/a		B					
12	Atrazine	0.5	lb ai/a	1	pt/a		B					
12	MSO	1 %	v/v	19.2	oz/a		B					
12	N Pak AMS	2.5 %	v/v	3	pt/a		B					
13	Harness	1.53	lb ai/a	1.75	pt/a		B	100 -	100 a	77 -	100 -	100 -
13	Impact	0.0164	lb ai/a	0.75	oz/a		B					
13	Roundup Powermax	1.13	lb ae/a	32	oz/a		B					
13	Atrazine	0.5	lb ai/a	1	pt/a		B					
13	MSO	0.25 %	v/v	4.8	oz/a		B					
13	N Pak AMS	2.5 %	v/v	3	pt/a		B					
14	UTC							0 -	0 b	0	0 -	0 -
LSD P=.05									3.9	12.0		
Standard Deviation								0.0	2.8	8.4	0.0	0.0
CV								0.0	3.01	9.91	0.0	0.0
Levene's F								0.00	1.679	1.313	0.00	0.00
Levene's Prob(F)								.	0.11	0.25	.	.
Skewness								-3.4205*	-3.2057*	-0.4096	-3.4205*	-3.4205*
Kurtosis								10.0581*	8.7474*	0.2663	10.0581*	10.0581*
Replicate F								0.000	2.275	2.024	0.000	0.000
Replicate Prob(F)								1.0000	0.0965	0.1279	1.0000	1.0000
Treatment F								0.000	400.572	1.830	0.000	0.000
Treatment Prob(F)								1.0000	0.0001	0.0801	1.0000	1.0000

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Pest Type W Weed
 Pest Code ABUTH
 Pest Name velvetleaf
 Crop Type, Code C -
 Crop Name
 Rating Date Jul-18-2019
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Data Entry Date Jul-18-2019
 Days After First/Last Applic. 96 50
 Trt-Eval Interval 50 DA-C
 Days After Emergence 83 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate	Appl Unit Code	16*
1	Resicore	2.06 lb ai/a		2.5 qt/a		A	100 -
1	Atrazine	1 lb ai/a		1 qt/a		A	
1	Durango DMA	1 lb ae/a		32 oz/a		C	
1	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
2	Surestart II	1.56 lb ai/a		3 pt/a		A	100 -
2	Atrazine	1.5 lb ai/a		1.5 qt/a		A	
2	Durango DMA	1 lb ae/a		32 oz/a		C	
2	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
3	Resicore	1.03 lb ai/a		1.25 qt/a		A	100 -
3	Atrazine	1 lb ai/a		1 qt/a		A	
3	Resicore	1.03 lb ai/a		1.25 qt/a		C	
3	Durango DMA	1 lb ae/a		32 oz/a		C	
3	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
4	Cinch ATZ	2.9 lb ai/a		2.1 qt/a		A	100 -
4	REALM Q 4 OZ					C	
4	rimsulfuon	0.0188 lb ai/a		1.2 oz/a		C	
4	mesotrione	0.078 lb ai/a		2.5 oz/a		C	
4	isoxadifin-ethyl	0.0047 lb ai/a		0.15 oz/a		C	
4	Atrazine	0.5 lb ai/a		16 oz/a		C	
4	COC	1 % v/v		1 % v/v		C	
4	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
5	Acuron	2.58 lb ai/a		3 qt/a		A	100 -
6	Acuron	1.29 lb ai/a		1.5 qt/a		A	100 -
6	Halex GT	1.97 lb ai/a		3.6 pt/a		C	
6	AAtrex	0.5 lb ai/a		1 pt/a		C	
6	NIS	0.25 % v/v		0.25 % v/v		C	
6	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
7	Bicep II Magnum	1.79 lb ai/a		1.3 qt/a		A	100 -
7	Halex GT	1.97 lb ai/a		3.6 pt/a		C	
7	AAtrex	0.5 lb ai/a		1 pt/a		C	
7	NIS	0.25 % v/v		0.25 % v/v		C	
7	N Pak AMS	2.5 % v/v		2.5 % v/v		C	
8	Halex GT	2.2 lb ai/a		4 pt/a		C	100 -
8	AAtrex	0.5 lb ai/a		1 pt/a		C	
8	NIS	0.25 % v/v		0.25 % v/v		C	
8	N Pak AMS	2.5 % v/v		2.5 % v/v		C	

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 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 4,9,10,11,14,15,16 because error mean square = 0.

Pest Type W Weed
 Pest Code ABUTH
 Pest Name velvetleaf
 Crop Type, Code C -
 Crop Name
 Rating Date Jul-18-2019
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1
 Data Entry Date Jul-18-2019
 Days After First/Last Applic. 96 50
 Trt-Eval Interval 50 DA-C
 Days After Emergence 83 DE-1
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	16*
9	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	100 -
9	ImpactZ	0.356	lb ai/a	10.7	oz/a	C	
9	MSO	1	% v/v	19.2	oz/a	C	
9	N Pak AMS	2.5	% v/v	3	pt/a	C	
10	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	100 -
10	ImpactZ	0.266	lb ai/a	8	oz/a	C	
10	Liberty	0.402	lb ai/a	22	oz/a	C	
10	MSO	0.5	% v/v	9.6	oz/a	C	
10	N Pak AMS	2.5	% v/v	3	pt/a	C	
11	Harness Xtra 5.6	2.24	lb ai/a	3.2	pt/a	A	100 -
11	Shieldex	0.035	lb ai/a	1.35	oz/a	C	
11	Atrazine	0.335	lb ai/a	0.67	pt/a	C	
11	MSO	1	% v/v	19.2	oz/a	C	
11	N Pak AMS	2.5	% v/v	3	pt/a	C	
12	Harness	1.53	lb ai/a	1.75	pt/a	B	100 -
12	Impact	0.0219	lb ai/a	1	oz/a	B	
12	Atrazine	0.5	lb ai/a	1	pt/a	B	
12	MSO	1	% v/v	19.2	oz/a	B	
12	N Pak AMS	2.5	% v/v	3	pt/a	B	
13	Harness	1.53	lb ai/a	1.75	pt/a	B	100 -
13	Impact	0.0164	lb ai/a	0.75	oz/a	B	
13	Roundup Powermax	1.13	lb ae/a	32	oz/a	B	
13	Atrazine	0.5	lb ai/a	1	pt/a	B	
13	MSO	0.25	% v/v	4.8	oz/a	B	
13	N Pak AMS	2.5	% v/v	3	pt/a	B	
14	UTC						0 -
	LSD P=.05						.
	Standard Deviation						0.0
	CV						0.0
	Levene's F						0.00
	Levene's Prob(F)						.
	Skewness						-3.4205*
	Kurtosis						10.0581*
	Replicate F						0.000
	Replicate Prob(F)						1.0000
	Treatment F						0.000
	Treatment Prob(F)						1.0000

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