

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Status: E established

ARM Trial Created On: Nov-18-2019

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 °: 39.85876 N
Longitude of LL Corner °: -83.67161 W
Altitude of LL Corner: 1093.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C	GLXMA Glycine max	Soybean	BBCH Scale: BSOY
	Entry Date: May-8-2020	Stage Scale: BBCH	
	Variety: Pioneer P30T99E		
	Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol		
	Planting Date: May-7-2020	Planting Rate: 156000	S/A
	Depth: 1.5 IN		
	Rows per Plot: 4	Planting Method: PLANTD	planted
	Row Spacing: 30 IN	Planting Equipment: FE	field equipment
		Seed Bed: MEDTRA	medium/trashy
	Soil Temperature: 48 F	Soil Moisture: NORMAL	normal, adequate
	Emergence Date: May-25-2020		

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Pest Description

Pest 1 Type: W **Code:** LAMPU *Lamium purpureum*
Common Name: Purple deadnettle **Entry Date:** May-8-2020

Pest 2 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed **Entry Date:** May-8-2020

Pest 3 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Blowball **Entry Date:** May-8-2020

Pest 4 Type: W **Code:** CARPE *Cardamine pensylvanica*
Common Name: Pennsylvania bittercress **Entry Date:** May-8-2020

Pest 5 Type: W **Code:** CAPBP *Capsella bursa-pastoris*
Common Name: Shepherd's purse **Entry Date:** May-8-2020

Pest 6 Type: W **Code:** RANAB *Ranunculus abortivus*
Common Name: Smallflower buttercup **Entry Date:** May-8-2020

Pest 7 Type: W **Code:** VERAG *Veronica agrestis*
Common Name: Field speedwell **Entry Date:** May-8-2020

Pest 8 Type: W **Code:** DRBSS *Draba sp.*
Common Name: Whitlow-grass **Entry Date:** May-8-2020

Pest 9 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed **Entry Date:** May-8-2020

Pest10 Type: W **Code:** SETFA *Setaria faberi*
Common Name: foxtail, giant **Entry Date:** May-28-2020

Pest11 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: horseweed **Entry Date:** May-28-2020

Pest12 Type: W **Code:** ABUTH *Abitilon theophrasti*
Common Name: velvetleaf **Entry Date:** Jun-25-2020

Pest13 Type: W **Code:** AMBEL *Ambrosia artemisiifolia*
Common Name: ragweed, common **Entry Date:** Jun-25-2020

Pest14 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: pigweed, redroot **Entry Date:** Jun-25-2020

Pest15 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: lambsquarters, common **Entry Date:** Jun-25-2020

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT² **Treatments:** 10 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2019

Soil Description

Description Name: F-9 E **Texture:** SICL silty clay loam
% Sand: 36 **% OM:** 3 **pH:** 6.4 **Soil Name:** Kokomo
% Silt: 49 **CEC:** 17.8 **Fert. Level:** G good
% Clay: 15
Soil Drainage: G good

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Application Description

	A	B	C	D	E
Application Date	Nov-20-2019	May-7-2020	May-27-2020	Jun-9-2020	Jun-24-2020
Appl. Start Time	10:00 AM	11:30 AM	10:00 AM	8:00 AM	9:00 AM
Appl. Stop Time	10:15 AM	12:00 AM	10:30 AM	8:30 AM	9:30 AM
Interval to Prev. Appl.		169 DAYS	20 DAYS	13 DAYS	15 DAYS
Application Method	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Application Timing	FALL	PRE	EPO	POST	POST
Application Placement	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Applied By	Dobbels	Lamb	Dobbels	Kimmet	Loux
Appl. Entry Date	May-8-2020	May-8-2020	May-28-2020	Jun-9-2020	Jun-25-2020
Air Temperature Start, Stop	43 43 F	58 58 F	73 75 F	69 69 F	66 66 F
% Relative Humidity Start, Stop	72 72	49 49	78 78	68 68	80 80
Wind Velocity+Dir. Start	3 MPH WNW	8 MPH WSW	7 MPH SSE	5 MPH ESE	8 MPH W
Wind Velocity+Dir. Stop	3 MPH WNW	8 MPH WSW	7 MPH SSE	5 MPH ESE	8 MPH W
Wind Velocity+Dir. Max	3 MPH WNW	10 MPH WSW	7 MPH SSE	5 MPH ESE	8 MPH W
Wet Leaves (Y/N)	N no	N no	N no	N no	Y yes
Soil Temperature	39 F	48 F	72 F	64 F	69 F
Soil Moisture	MOIST	NORMAL	DRY	DRY	SLIWET
Soil Surface Condition	MEDTRA	MEDTRA	MEDIUM	MEDTRA	MEDTRA
% Cloud Cover	60	0	15	20	30
Next Moisture Occurred On	Nov-22-2019	May-8-2020	May-28-2020	Jun-9-2020	Jun-25-2020
Time to Next Moisture	2 DAY	20 HR	21 HR	10 HR	1 DAY
Moisture 6 Hours after Appl.	0 IN	0 IN	0 IN	0 IN	0 IN
Moisture 1 Week after Appl.	0.72 IN	0.65 IN	0.95 IN	0.37 IN	0.09 IN

Crop Stage At Each Application

	A		B		C		D		E	
Crop 1 Code, BBCH Scale	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-187		-18		2		15		30	
Stage Scale Used	BBCH		BBCH		BBCH		BBCH		BBCH	
Stage Majority, Percent					11	100	12	100	14	50
Stage Minimum, Percent									14	50
Stage Maximum, Percent									15	50
Height Average					3	IN	6	IN	8	IN
Height Minimum, Maximum									6	10

Pest Stage At Each Application

	A		B		C		D		E	
Pest 1 Code, Type, Scale	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W	LAMPU	W
Stage Majority, Percent	16	90	65	90						
Stage Minimum, Percent	14	10	69	10						
Stage Maximum, Percent	16	90	69	10						
Diameter	2	IN	3	IN						
Height Average	1	IN	5	IN						
Height Minimum, Maximum	0.5	1	5	7						
Density Average	30	PLA/m2	30	PLA/M2						
Density Min, Max	5	50	3	50						
Pest 2 Code, Type, Scale	STEME	W	STEME	W	STEME	W	STEME	W	STEME	W
Stage Majority, Percent	14	80	65	80						
Stage Minimum, Percent	12	10	69	10						
Stage Maximum, Percent	16	10	69	10						
Diameter	0.25	IN	8	IN						
Height Average	0.5	IN	3	IN						
Height Minimum, Maximum	0.25	0.5	3	4						
Density Average	0.33	PLA/m2	5	PLA/m2						
Density Min, Max	0.33	3	0.33	10						
Pest 3 Code, Type, Scale	TAROF	W	TAROF	W	TAROF	W	TAROF	W	TAROF	W
Stage Majority, Percent	16	80	60	80			65	100		
Stage Minimum, Percent	14	10	60	80						
Stage Maximum, Percent	18	10	65	10						
Diameter	6	IN	6	IN						
Height Average	1	IN	3	IN			6	IN		
Height Minimum, Maximum	0.5	1.5	2	4						
Density Average	6	PLA/m2	1	PLA/M2						
Density Min, Max	0	20	0	10						
Pest 4 Code, Type, Scale	CARPE	W	CARPE	W	CARPE	W	CARPE	W	CARPE	W
Stage Majority, Percent	14	80	89	90						
Stage Minimum, Percent	12	10	89	90						
Stage Maximum, Percent	16	10	97	10						
Diameter	0.5	IN	1	IN						
Height Average	0.5	IN	3	IN						
Height Minimum, Maximum	0.25	0.5	3	4						
Density Average	0.33	PLA/m2	6	PLA/m2						
Density Min, Max	0	3	0	12						

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Pest 5 Code, Type, Scale	CAPBP W	CAPBP W	CAPBP W	CAPBP W	CAPBP W
Stage Majority, Percent	65	75	69	75	
Stage Minimum, Percent	65	75	69	75	
Stage Maximum, Percent	69	10	71	25	
Diameter	4	IN			
Height Average	10	IN	16	IN	
Height Minimum, Maximum	10	12	15	18	
Density Average	3	PLA/m2			
Density Min, Max	0	5			
Pest 6 Code, Type, Scale	RANAB W	RANAB W	RANAB W	RANAB W	RANAB W
Stage Majority, Percent	61	90			
Stage Minimum, Percent	51	10			
Stage Maximum, Percent	61	90			
Diameter	3	IN			
Height Average	10	IN			
Height Minimum, Maximum	8	12			
Density Average	3	PLA/m2			
Density Min, Max	0	6			
Pest 7 Code, Type, Scale	VERAG W	VERAG W	VERAG W	VERAG W	VERAG W
Stage Majority, Percent	65	90	69	90	65 100
Stage Minimum, Percent	65	90	67	10	
Stage Maximum, Percent	69	10	69	90	
Diameter	4	IN			
Height Average	0.5	IN	6	IN	6 IN
Height Minimum, Maximum	0.25	0.5	6	8	
Density Average	3	PLA/m2			
Density Min, Max	0	6			
Pest 8 Code, Type, Scale	DRBSS W	DRBSS W	DRBSS W	DRBSS W	DRBSS W
Stage Majority, Percent	71	80			
Stage Minimum, Percent	71	80			
Stage Maximum, Percent	89	10			
Diameter	1	IN			
Height Average	2	IN			
Height Minimum, Maximum	2	3			
Density Average	5	PLA/m2			
Density Min, Max	0	15			
Pest 9 Code, Type, Scale	AMBTR W	AMBTR W	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent	12	80	21	90	18 80
Stage Minimum, Percent	12	80	19	10	16 10
Stage Maximum, Percent	14	10	21	90	19 10
Diameter	2	IN			
Height Average	2	IN	14	IN	6 IN
Height Minimum, Maximum	2	4	12	18	4 6
Density Average	6	PLA/m2	8	PLA/m2	4 10
Density Min, Max	0	12	2	12	
Pest10 Code, Type, Scale	SETFA W	SETFA W	SETFA W	SETFA W	SETFA W
Stage Majority, Percent			12	90	13 100
Stage Minimum, Percent			11	10	14 10
Stage Maximum, Percent			12	90	19 10
Height Average			1	IN	6 IN
Height Minimum, Maximum			1	1	4 IN
Density Average			136	PLA/m2	136 PLA/m2
Density Min, Max			97	213	97 213
Pest11 Code, Type, Scale	ERICA W	ERICA W	ERICA W	ERICA W	ERICA W
Stage Majority, Percent			19	80	21 100
Stage Minimum, Percent			17	10	19 90
Stage Maximum, Percent			19	10	18
Height Average			3	IN	19
Height Minimum, Maximum			2	3	4 IN
Density Average			2	PLA/m2	2 6
Density Min, Max			0	5	2 PLA/m2
Pest12 Code, Type, Scale	ABUTH W	ABUTH W	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent					16 80
Stage Minimum, Percent					14 10
Stage Maximum, Percent					19 10
Height Average					4 IN
Height Minimum, Maximum					2 6
Density Average					0.33 PLA/m2
Density Min, Max					0 1
Pest13 Code, Type, Scale	AMBEL W	AMBEL W	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent					18 80
Stage Minimum, Percent					16
Stage Maximum, Percent					18
Height Average					6 IN
Height Minimum, Maximum					6 8

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Density Average					0.66	PLA/m2
Density Min, Max					0	2
Pest14 Code, Type, Scale	AMARE W	AMARE W	AMARE W	AMARE W	AMARE W	
Stage Majority, Percent					16	80
Stage Minimum, Percent					16	
Stage Maximum, Percent					19	
Height Average					4	IN
Height Minimum, Maximum					4	6
Density Average					0.33	PLA/m2
Density Min, Max					0	1
Pest15 Code, Type, Scale	CHEAL W	CHEAL W	CHEAL W	CHEAL W	CHEAL W	
Stage Majority, Percent					19	90
Stage Minimum, Percent					16	
Stage Maximum, Percent					19	
Height Average					6	IN
Height Minimum, Maximum					4	8
Density Average					0.66	pla/m2
Density Min, Max					0	2

Application Equipment

	A	B	C	D	E
Appl. Equipment	6 Foot AI XR	6 Foot AI XR	6' AIXR	6' AIXR	6' AIXR
Equipment Type	BACCAI	BACCAI	BACCAI	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI	44 PSI	44 PSI	44 PSI
Nozzle Type	AI XR	AI XR	AIXR	AIXR	AIXR
Nozzle Size	110015	110015	1110015	1110015	1110015
Nozzle Spacing	18 IN	18 IN	18 IN	18 IN	18 IN
Boom Length	6.67 FT	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Boom Height	20 IN	20 IN	20 IN	20 IN	20 IN
Ground Speed	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH
Carrier	WATER	WATER	WATER	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
Mix Size	2 L	2 L	1 L	1 L	1 L
Propellant	COMCO2	COMCO2	COMCO2	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Nov-18-2019	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	May-8-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

Instructions:

OBJECTIVES: Observe Fall applications of UPL herbicides, Audit 1:1 at two different rates compared to metribuzin + sulfentrazone tankmix applied at two different rates effect upon control of fall and winter annual weeds as well length of residual followed up by various Spring herbicidie tre3atments.

DESIGN: Randomized Complete Block Design replicated 4 times.

TILLAGE: No-Tillage

TARGET WEEDS: Marestalk, cressleaf groundsel, corn speedwell, henbit, purple deadnettle, amd others.

PARAMETERS: Take weed control ratings for Fall applications in the Spring. Spring herbicide applications % weed control ratings need to be taken at 3, 7, 14, 30 days after treatment (DAT), as well as % crop reponse. Same for POST applications. Yields to be taken.

CONTINGENCIES:

1. Roundup formulation may be switched out to another Bayer (Monsanto) Glyphosate formulation.
2. Can switch out TRICOR 4F 6 oz to TRICOR 75 DF 4 oz and so on.
3. Can use Liquid AMS if you are comfortable withusing.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	AMBTR	RANAB
Pest Scientific Name	Stellaria media Lamium purpure> Ambrosia trifi> Ranunculus abo>			
Pest Name	Common chickwe>	Purple deadnet>	Giant ragweed	Smallflower bu>
Crop Type, Code				
Crop Name				
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	169 169	169 169	169 169	169 169
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*
1 UNTREATED CHECK						0 b	0 b	0 -	0 b
2 WEEDMASTER	32 fl oz/a		0.97 lb ai/a		A	87 a	90 a	0 -	79 a
2 ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
2 N Pak AMS	5 % v/v		5 % v/v		A				
2 Moccasin II PPlus	1.24 lb ai/a		1.3 pt/a		B				
2 Tricor	0.094 lb ai/a		3 oz/a		B				
2 Interline	0.585 lb ai/a		32 oz/a		B				
2 AMSOL	5 % v/v		5 % v/v		B				
2 Interline	0.585 lb ai/a		32 oz/a		D				
2 AMSOL	5 % v/v		5 % v/v		D				
3 AUDIT 1:1	0.75 oz/a		0.0234 lb ai/a		A	100 a	93 a	0 -	77 a
3 ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
3 N Pak AMS	5 % v/v		5 % v/v		A				
3 Tripzin ZC	0.91 lb ai/a		29 oz/a		B				
3 Interline	0.585 lb ai/a		32 oz/a		B				
3 AMSOL	5 % v/v		5 % v/v		B				
3 Interline	0.585 lb ai/a		32 oz/a		D				
3 AMSOL	5 % v/v		5 % v/v		D				
4 AUDIT 1:1	1 oz/a		0.0313 lb ai/a		A	100 a	85 a	0 -	104 a
4 ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
4 N Pak AMS	5 % v/v		5 % v/v		A				
4 Shutdown	0.0975 lb ai/a		3 oz/a		B				
4 Tricor	0.188 lb ai/a		6 oz/a		B				
4 Interline	0.585 lb ai/a		32 oz/a		B				
4 AMSOL	5 % v/v		5 % v/v		B				
4 Interline	0.585 lb ai/a		32 oz/a		D				
4 AMSOL	5 % v/v		5 % v/v		D				
5 SHUTDOWN	3 fl oz/a		0.0975 lb ai/a		A	100 a	90 a	0 -	87 a
5 TRICOR	6 fl oz/a		0.188 lb ai/a		A				
5 ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
5 N Pak AMS	5 % v/v		5 % v/v		A				
5 Moccasin II PPlus	1.24 lb ai/a		1.3 pt/a		B				
5 Upstage	0.49 lb ai/a		21 oz/a		B				
5 Interline	0.585 lb ai/a		32 oz/a		B				
5 AMSOL	5 % v/v		5 % v/v		B				
5 Interline	0.585 lb ai/a		32 oz/a		D				
5 AMSOL	5 % v/v		5 % v/v		D				

Means followed by same letter or symbol do not significantly differ (P=,05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

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Rating Unit	%	%	%	%
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Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1
Number of Decimals	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*
6 SHUTDOWN	4 fl oz/a		0.13 lb ai/a		A	98 a	90 a	0 -	87 a
6 TRICOR	8 fl oz/a		0.25 lb ai/a		A				
6 ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
6 N Pak AMS	5 % v/v		5 % v/v		A				
6 Moccasin II PPlus	1.24 lb ai/a		1.3 pt/a		C				
6 Classic	0.0156 lb ai/a		1 oz/a		C				
6 Interline	0.585 lb ai/a		32 oz/a		C				
6 AMSOL	5 % v/v		5 % v/v		C				
6 Interline	0.585 lb ai/a		32 oz/a		E				
6 AMSOL	5 % v/v		5 % v/v		E				
7									
7 Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
7 Zidua Pro	0.144 lb ai/a		4.5 oz/a		B				
7 MSO	1 % v/v		1 % v/v		B				
7 AMSOL	5 % v/v		5 % v/v		B				
7 Liberty	0.585 lb ai/a		32 oz/a		D				
7 AMSOL	5 % v/v		5 % v/v		D				
8									
8 Fierce MTZ	0.33 lb ai/a		16 oz/a		B				
8 Scout	0.53 lb ai/a		29 oz/a		B				
8 AMSOL	5 % v/v		5 % v/v		B				
8 Scout	0.585 lb ai/a		32 oz/a		D				
8 AMSOL	5 % v/v		5 % v/v		D				
9									
9 Panther Pro	0.397 lb ai/a		12 oz/a		B				
9 Cheetah	0.585 lb ai/a		32 oz/a		B				
9 AMSOL	5 % v/v		5 % v/v		B				
9 Cheetah	0.585 lb ai/a		32 oz/a		D				
9 AMSOL	5 % v/v		5 % v/v		D				

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Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	STEME	LAMPU	AMBTR	RANAB
Pest Scientific Name	Stellaria media Lamium purpure> Ambrosia trifi> Ranunculus abo>			
Pest Name	Common chickwe>	Purple deadnet>	Giant ragweed	Smallflower bu>
Crop Type, Code				
Crop Name				
Rating Date	May-7-2020	May-7-2020	May-7-2020	May-7-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	May-8-2020	May-8-2020
Rating Timing	AT PLANT	AT PLANT	AT PLANT	AT PLANT
Days After First/Last Applic.	169 169	169 169	169 169	169 169
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B
Plant-Eval Interval	0 DP-1	0 DP-1	0 DP-1	0 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	-18 DE-1	-18 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*
10									
10 Gramoxone	1.13	lb ai/a	3	pt/a	B				
10 Tricor	0.375	lb ai/a	12	oz/a	B				
10 NIS	0.25	% v/v	0.25	% v/v	B				
10 Interline	0.585	lb ai/a	32	oz/a	D				
10 AMSOL	5	% v/v	5	% v/v	D				
LSD P=.05						17.5	15.0	.	28.9
Standard Deviation						9.6	8.2	0.0	15.0
CV						11.9	11.04	0.0	22.14
Grand Mean						80.8	74.7	0.0	67.7
Levene's F						0.951	0.445	0.00	6.093
Levene's Prob(F)						0.484	0.809	.	0.01*
Rank X2						.	.	.	.
P(Rank X2)						.	.	.	.
Skewness						-1.7579*	-1.7827*	.	-1.0528
Kurtosis						1.4237	1.6739	.	-0.3848
Replicate F						0.856	0.265	0.000	2.838
Replicate Prob(F)						0.4538	0.7722	1.0000	0.1251
Treatment F						51.739	59.384	0.000	16.167
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0010

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CARPE	VERAG	SETFA	AMBTR
Pest Scientific Name	Cardamine pens> Veronica agres>		Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania b>	Field speedwell	Giant foxtail	Giant ragweed
Crop Type, Code			C GLXMA	
Crop Name			Soybean	
Rating Date	May-7-2020	May-7-2020	Jun-8-2020	Jun-8-2020
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	Jun-8-2020	Jun-8-2020
Rating Timing	AT PLANT	AT PLANT	AT POST	AT POST
Days After First/Last Applic.	169 169	169 169	201 12	201 12
Trt-Eval Interval	0 DA-B	0 DA-B	-1 DA-D	-1 DA-D
Plant-Eval Interval	0 DP-1	0 DP-1	32 DP-1	32 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	14 DE-1	14 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	5*	6*	7*	8*	9*
1	UNTREATED CHECK						0 c	0 b	0 c	0 c	0 d
2	WEEDMASTER	32 fl oz/a		0.97 lb ai/a		A	83 ab	30 a	0 c	70 b	27 c
2	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
2	N Pak AMS	5 % v/v		5 % v/v		A					
2	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B					
2	Tricor	0.094 lb ai/a		3 oz/a		B					
2	Interline	0.585 lb ai/a		32 oz/a		B					
2	AMSOL	5 % v/v		5 % v/v		B					
2	Interline	0.585 lb ai/a		32 oz/a		D					
2	AMSOL	5 % v/v		5 % v/v		D					
3	AUDIT 1:1	0.75 oz/a		0.0234 lb ai/a		A	60 b	30 a	0 c	23 c	40 bc
3	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
3	N Pak AMS	5 % v/v		5 % v/v		A					
3	Tripzin ZC	0.91 lb ai/a		29 oz/a		B					
3	Interline	0.585 lb ai/a		32 oz/a		B					
3	AMSOL	5 % v/v		5 % v/v		B					
3	Interline	0.585 lb ai/a		32 oz/a		D					
3	AMSOL	5 % v/v		5 % v/v		D					
4	AUDIT 1:1	1 oz/a		0.0313 lb ai/a		A	87 ab	33 a	2 b	100 a	63 ab
4	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
4	N Pak AMS	5 % v/v		5 % v/v		A					
4	Shutdown	0.0975 lb ai/a		3 oz/a		B					
4	Tricor	0.188 lb ai/a		6 oz/a		B					
4	Interline	0.585 lb ai/a		32 oz/a		B					
4	AMSOL	5 % v/v		5 % v/v		B					
4	Interline	0.585 lb ai/a		32 oz/a		D					
4	AMSOL	5 % v/v		5 % v/v		D					
5	SHUTDOWN	3 fl oz/a		0.0975 lb ai/a		A	97 a	40 a	0 c	85 ab	40 bc
5	TRICOR	6 fl oz/a		0.188 lb ai/a		A					
5	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
5	N Pak AMS	5 % v/v		5 % v/v		A					
5	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B					
5	Upstage	0.49 lb ai/a		21 oz/a		B					
5	Interline	0.585 lb ai/a		32 oz/a		B					
5	AMSOL	5 % v/v		5 % v/v		B					
5	Interline	0.585 lb ai/a		32 oz/a		D					
5	AMSOL	5 % v/v		5 % v/v		D					

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	CARPE	VERAG	SETFA	AMBTR
Pest Scientific Name	Cardamine pens>	Veronica agres>	Setaria faberi	Ambrosia trifi>
Pest Name	Pennsylvania b>	Field speedwell	Giant foxtail	Giant ragweed
Crop Type, Code			C GLXMA	
Crop Name			Soybean	
Rating Date	May-7-2020	May-7-2020	Jun-8-2020	Jun-8-2020
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	May-8-2020	May-8-2020	Jun-8-2020	Jun-8-2020
Rating Timing	AT PLANT	AT PLANT	AT POST	AT POST
Days After First/Last Applic.	169 169	169 169	201 12	201 12
Trt-Eval Interval	0 DA-B	0 DA-B	-1 DA-D	-1 DA-D
Plant-Eval Interval	0 DP-1	0 DP-1	32 DP-1	32 DP-1
Days After Emergence	-18 DE-1	-18 DE-1	14 DE-1	14 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5*	6*	7*	8*	9*
6	SHUTDOWN	4 fl oz/a		0.13 lb ai/a		A	90 a	-3 b	25 a	100 a	73 a
6	TRICOR	8 fl oz/a		0.25 lb ai/a		A					
6	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
6	N Pak AMS	5 % v/v		5 % v/v		A					
6	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		C					
6	Classic	0.0156 lb ai/a		1 oz/a		C					
6	Interline	0.585 lb ai/a		32 oz/a		C					
6	AMSOL	5 % v/v		5 % v/v		C					
6	Interline	0.585 lb ai/a		32 oz/a		E					
6	AMSOL	5 % v/v		5 % v/v		E					
7									0 c	85 ab	33 c
7	Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
7	Zidua Pro	0.144 lb ai/a		4.5 oz/a		B					
7	MSO	1 % v/v		1 % v/v		B					
7	AMSOL	5 % v/v		5 % v/v		B					
7	Liberty	0.585 lb ai/a		32 oz/a		D					
7	AMSOL	5 % v/v		5 % v/v		D					
8									0 c	83 ab	47 bc
8	Fierce MTZ	0.33 lb ai/a		16 oz/a		B					
8	Scout	0.53 lb ai/a		29 oz/a		B					
8	AMSOL	5 % v/v		5 % v/v		B					
8	Scout	0.585 lb ai/a		32 oz/a		D					
8	AMSOL	5 % v/v		5 % v/v		D					
9									0 c	90 ab	47 bc
9	Panther Pro	0.397 lb ai/a		12 oz/a		B					
9	Cheetah	0.585 lb ai/a		32 oz/a		B					
9	AMSOL	5 % v/v		5 % v/v		B					
9	Cheetah	0.585 lb ai/a		32 oz/a		D					
9	AMSOL	5 % v/v		5 % v/v		D					

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed						
Pest Code	CARPE	VERAG	SETFA	AMBTR						
Pest Scientific Name	Cardamine pens> Veronica agres>		Setaria faberi	Ambrosia trifi>						
Pest Name	Pennsylvania b>	Field speedwell	Giant foxtail	Giant ragweed						
Crop Type, Code			C GLXMA							
Crop Name			Soybean							
Rating Date	May-7-2020	May-7-2020	Jun-8-2020	Jun-8-2020						
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO						
Rating Unit	%	%	%	%						
Number of Subsamples	1	1	1	1						
Data Entry Date	May-8-2020	May-8-2020	Jun-8-2020	Jun-8-2020						
Rating Timing	AT PLANT	AT PLANT	AT POST	AT POST						
Days After First/Last Applic.	169 169	169 169	201 12	201 12						
Trt-Eval Interval	0 DA-B	0 DA-B	-1 DA-D	-1 DA-D						
Plant-Eval Interval	0 DP-1	0 DP-1	32 DP-1	32 DP-1						
Days After Emergence	-18 DE-1	-18 DE-1	14 DE-1	14 DE-1						
Number of Decimals	0	0	0	0						
Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	5*	6*	7*	8*	9*
10								0 c	10 c	33 c
10 Gramoxone	1.13 lb ai/a		3 pt/a		B					
10 Tricor	0.375 lb ai/a		12 oz/a		B					
10 NIS	0.25 % v/v		0.25 % v/v		B					
10 Interline	0.585 lb ai/a		32 oz/a		D					
10 AMSOL	5 % v/v		5 % v/v		D					
LSD P=.05						28.1	13.9	1.6	28.0	26.4
Standard Deviation						15.5	6.1	0.9	16.3	15.4
CV						22.26	28.26	34.23	25.26	38.14
Grand Mean						69.4	21.7	2.7	64.7	40.3
Levene's F						0.471	0.00	1.00	0.621	1.04
Levene's Prob(F)						0.791	.	0.471	0.766	0.444
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						-1.1295*	-0.3102	2.7435*	-0.7178	-0.1274
Kurtosis						0.0195	-1.0677	6.0387*	-1.0608	-0.647
Replicate F						0.860	0.667	1.000	0.341	2.127
Replicate Prob(F)						0.4521	0.5625	0.3874	0.7159	0.1482
Treatment F						16.488	15.822	222.667	16.521	5.085
Treatment Prob(F)						0.0002	0.0097	0.0001	0.0001	0.0017

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
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 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	TAROF	SETFA
Pest Scientific Name	Erigeron canad>	Taraxacum offi>	Setaria faberi
Pest Name	Canada horsewe>	Blowball	Giant foxtail
Crop Type, Code			C GLXMA
Crop Name			Soybean
Rating Date	Jun-8-2020	Jun-8-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing	AT POST	AT POST	AT POST
Days After First/Last Applic.	201 12	201 12	217 15
Trt-Eval Interval	-1 DA-D	-1 DA-D	28 DA-C
Plant-Eval Interval	32 DP-1	32 DP-1	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	30 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	10*	11*	12*	13*
1	UNTREATED CHECK						0 c	0 d	0 -	0.0 b
2	WEEDMASTER	32 fl oz/a		0.97 lb ai/a		A	83 ab	100 a	0 -	92.7 a
2	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
2	N Pak AMS	5 % v/v		5 % v/v		A				
2	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B				
2	Tricor	0.094 lb ai/a		3 oz/a		B				
2	Interline	0.585 lb ai/a		32 oz/a		B				
2	AMSOL	5 % v/v		5 % v/v		B				
2	Interline	0.585 lb ai/a		32 oz/a		D				
2	AMSOL	5 % v/v		5 % v/v		D				
3	AUDIT 1:1	0.75 oz/a		0.0234 lb ai/a		A	100 a	90 ab	0 -	73.3 a
3	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
3	N Pak AMS	5 % v/v		5 % v/v		A				
3	Tripzin ZC	0.91 lb ai/a		29 oz/a		B				
3	Interline	0.585 lb ai/a		32 oz/a		B				
3	AMSOL	5 % v/v		5 % v/v		B				
3	Interline	0.585 lb ai/a		32 oz/a		D				
3	AMSOL	5 % v/v		5 % v/v		D				
4	AUDIT 1:1	1 oz/a		0.0313 lb ai/a		A	100 a	100 a	0 -	97.7 a
4	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
4	N Pak AMS	5 % v/v		5 % v/v		A				
4	Shutdown	0.0975 lb ai/a		3 oz/a		B				
4	Tricor	0.188 lb ai/a		6 oz/a		B				
4	Interline	0.585 lb ai/a		32 oz/a		B				
4	AMSOL	5 % v/v		5 % v/v		B				
4	Interline	0.585 lb ai/a		32 oz/a		D				
4	AMSOL	5 % v/v		5 % v/v		D				
5	SHUTDOWN	3 fl oz/a		0.0975 lb ai/a		A	67 b	100 a	0 -	82.7 a
5	TRICOR	6 fl oz/a		0.188 lb ai/a		A				
5	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
5	N Pak AMS	5 % v/v		5 % v/v		A				
5	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B				
5	Upstage	0.49 lb ai/a		21 oz/a		B				
5	Interline	0.585 lb ai/a		32 oz/a		B				
5	AMSOL	5 % v/v		5 % v/v		B				
5	Interline	0.585 lb ai/a		32 oz/a		D				
5	AMSOL	5 % v/v		5 % v/v		D				

Means followed by same letter or symbol do not significantly differ (P=,05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	TAROF	SETFA
Pest Scientific Name	Erigeron canad>	Taraxacum offi>	Setaria faberi
Pest Name	Canada horsewe>	Blowball	Giant foxtail
Crop Type, Code			C GLXMA
Crop Name			Soybean
Rating Date	Jun-8-2020	Jun-8-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing	AT POST	AT POST	Jun-30-2020
Days After First/Last Applic.	201 12	201 12	217 15
Trt-Eval Interval	-1 DA-D	-1 DA-D	28 DA-C
Plant-Eval Interval	32 DP-1	32 DP-1	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	30 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	10*	11*	12*	13*
6	SHUTDOWN	4 fl oz/a		0.13 lb ai/a		A	100 a	100 a	0 -	70.0 a
6	TRICOR	8 fl oz/a		0.25 lb ai/a		A				
6	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
6	N Pak AMS	5 % v/v		5 % v/v		A				
6	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		C				
6	Classic	0.0156 lb ai/a		1 oz/a		C				
6	Interline	0.585 lb ai/a		32 oz/a		C				
6	AMSOL	5 % v/v		5 % v/v		C				
6	Interline	0.585 lb ai/a		32 oz/a		E				
6	AMSOL	5 % v/v		5 % v/v		E				
7							100 a	47 c	0 -	79.3 a
7	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
7	Zidua Pro	0.144 lb ai/a		4.5 oz/a		B				
7	MSO	1 % v/v		1 % v/v		B				
7	AMSOL	5 % v/v		5 % v/v		B				
7	Liberty	0.585 lb ai/a		32 oz/a		D				
7	AMSOL	5 % v/v		5 % v/v		D				
8							100 a	90 ab	0 -	91.0 a
8	Fierce MTZ	0.33 lb ai/a		16 oz/a		B				
8	Scout	0.53 lb ai/a		29 oz/a		B				
8	AMSOL	5 % v/v		5 % v/v		B				
8	Scout	0.585 lb ai/a		32 oz/a		D				
8	AMSOL	5 % v/v		5 % v/v		D				
9							100 a	63 bc	0 -	71.7 a
9	Panther Pro	0.397 lb ai/a		12 oz/a		B				
9	Cheetah	0.585 lb ai/a		32 oz/a		B				
9	AMSOL	5 % v/v		5 % v/v		B				
9	Cheetah	0.585 lb ai/a		32 oz/a		D				
9	AMSOL	5 % v/v		5 % v/v		D				

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	TAROF	SETFA
Pest Scientific Name	Erigeron canad>	Taraxacum offi>	Setaria faberi
Pest Name	Canada horsewe>	Blowball	Giant foxtail
Crop Type, Code			C GLXMA
Crop Name			Soybean
Rating Date	Jun-8-2020	Jun-8-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Data Entry Date	Jun-8-2020	Jun-8-2020	Jun-30-2020
Rating Timing	AT POST	AT POST	Jun-30-2020
Days After First/Last Applic.	201 12	201 12	217 15
Trt-Eval Interval	-1 DA-D	-1 DA-D	28 DA-C
Plant-Eval Interval	32 DP-1	32 DP-1	48 DP-1
Days After Emergence	14 DE-1	14 DE-1	30 DE-1
Number of Decimals	0	0	0

Trt Treatment	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	10*	11*	12*	13*
10						100 a	37 c	0 -	70.7 a
10 Gramoxone	1.13 lb ai/a		3 pt/a		B				
10 Tricor	0.375 lb ai/a		12 oz/a		B				
10 NIS	0.25 % v/v		0.25 % v/v		B				
10 Interline	0.585 lb ai/a		32 oz/a		D				
10 AMSOL	5 % v/v		5 % v/v		D				
LSD P=.05						21.5	27.8	.	35.55
Standard Deviation						12.5	16.2	0.0	20.73
CV						14.76	22.27	0.0	28.43
Grand Mean						85.0	72.7	0.0	72.90
Levene's F						0.889	1.347	0.00	0.625
Levene's Prob(F)						0.552	0.276	.	0.763
Rank X2						.	.	.	.
P(Rank X2)						.	.	.	.
Skewness						-2.0224*	-1.0683*	.	-1.3779*
Kurtosis						2.7867*	-0.1796	.	0.9461
Replicate F						1.588	0.165	0.000	0.548
Replicate Prob(F)						0.2316	0.8488	1.0000	0.5876
Treatment F						19.353	13.912	0.000	5.275
Treatment Prob(F)						0.0001	0.0001	1.0000	0.0014

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>
Pest Name	Common barnyar>	Giant ragweed	Canada horsewe>	Blowball
Crop Type, Code				
Crop Name				
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Timing				
Days After First/Last Applic.	217 15	217 15	217 15	217 15
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	14*	15*	16*	17*
1	UNTREATED CHECK						0.0 c	0.0 d	0.0 b	0 c
2	WEEDMASTER	32 fl oz/a		0.97 lb ai/a		A	68.3 ab	86.7 ab	100.0 a	97 a
2	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
2	N Pak AMS	5 % v/v		5 % v/v		A				
2	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B				
2	Tricor	0.094 lb ai/a		3 oz/a		B				
2	Interline	0.585 lb ai/a		32 oz/a		B				
2	AMSOL	5 % v/v		5 % v/v		B				
2	Interline	0.585 lb ai/a		32 oz/a		D				
2	AMSOL	5 % v/v		5 % v/v		D				
3	AUDIT 1:1	0.75 oz/a		0.0234 lb ai/a		A	58.3 b	83.3 ab	96.7 a	83 ab
3	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
3	N Pak AMS	5 % v/v		5 % v/v		A				
3	Tripzin ZC	0.91 lb ai/a		29 oz/a		B				
3	Interline	0.585 lb ai/a		32 oz/a		B				
3	AMSOL	5 % v/v		5 % v/v		B				
3	Interline	0.585 lb ai/a		32 oz/a		D				
3	AMSOL	5 % v/v		5 % v/v		D				
4	AUDIT 1:1	1 oz/a		0.0313 lb ai/a		A	94.3 a	85.0 ab	100.0 a	100 a
4	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
4	N Pak AMS	5 % v/v		5 % v/v		A				
4	Shutdown	0.0975 lb ai/a		3 oz/a		B				
4	Tricor	0.188 lb ai/a		6 oz/a		B				
4	Interline	0.585 lb ai/a		32 oz/a		B				
4	AMSOL	5 % v/v		5 % v/v		B				
4	Interline	0.585 lb ai/a		32 oz/a		D				
4	AMSOL	5 % v/v		5 % v/v		D				
5	SHUTDOWN	3 fl oz/a		0.0975 lb ai/a		A	69.3 ab	76.7 b	96.7 a	97 a
5	TRICOR	6 fl oz/a		0.188 lb ai/a		A				
5	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
5	N Pak AMS	5 % v/v		5 % v/v		A				
5	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B				
5	Upstage	0.49 lb ai/a		21 oz/a		B				
5	Interline	0.585 lb ai/a		32 oz/a		B				
5	AMSOL	5 % v/v		5 % v/v		B				
5	Interline	0.585 lb ai/a		32 oz/a		D				
5	AMSOL	5 % v/v		5 % v/v		D				

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
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The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	ERICA	TAROF
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>
Pest Name	Common barnyar>	Giant ragweed	Canada horsewe>	Blowball
Crop Type, Code				
Crop Name				
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Timing				
Days After First/Last Applic.	217 15	217 15	217 15	217 15
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1
Number of Decimals				0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	14*	15*	16*	17*
6	SHUTDOWN	4 fl oz/a		0.13 lb ai/a		A	70.0 ab	26.7 c	100.0 a	100 a
6	TRICOR	8 fl oz/a		0.25 lb ai/a		A				
6	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A				
6	N Pak AMS	5 % v/v		5 % v/v		A				
6	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		C				
6	Classic	0.0156 lb ai/a		1 oz/a		C				
6	Interline	0.585 lb ai/a		32 oz/a		C				
6	AMSOL	5 % v/v		5 % v/v		C				
6	Interline	0.585 lb ai/a		32 oz/a		E				
6	AMSOL	5 % v/v		5 % v/v		E				
7							53.3 b	98.3 a	100.0 a	53 b
7	Roundup Powermax	1.13 lb ae/a		32 oz/a		B				
7	Zidua Pro	0.144 lb ai/a		4.5 oz/a		B				
7	MSO	1 % v/v		1 % v/v		B				
7	AMSOL	5 % v/v		5 % v/v		B				
7	Liberty	0.585 lb ai/a		32 oz/a		D				
7	AMSOL	5 % v/v		5 % v/v		D				
8							75.0 ab	83.3 ab	100.0 a	90 a
8	Fierce MTZ	0.33 lb ai/a		16 oz/a		B				
8	Scout	0.53 lb ai/a		29 oz/a		B				
8	AMSOL	5 % v/v		5 % v/v		B				
8	Scout	0.585 lb ai/a		32 oz/a		D				
8	AMSOL	5 % v/v		5 % v/v		D				
9							56.7 b	95.0 ab	100.0 a	70 ab
9	Panther Pro	0.397 lb ai/a		12 oz/a		B				
9	Cheetah	0.585 lb ai/a		32 oz/a		B				
9	AMSOL	5 % v/v		5 % v/v		B				
9	Cheetah	0.585 lb ai/a		32 oz/a		D				
9	AMSOL	5 % v/v		5 % v/v		D				

Means followed by same letter or symbol do not significantly differ (P=,05, LSD).
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The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	ERICA	TAROF				
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Erigeron canad>	Taraxacum offi>				
Pest Name	Common barnyar> Giant ragweed Canada horsewe>			Blowball				
Crop Type, Code								
Crop Name								
Rating Date	Jun-24-2020	Jun-24-2020	Jun-24-2020	Jun-24-2020				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Data Entry Date	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020				
Rating Timing								
Days After First/Last Applic.	217 15	217 15	217 15	217 15				
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C				
Plant-Eval Interval	48 DP-1	48 DP-1	48 DP-1	48 DP-1				
Days After Emergence	30 DE-1	30 DE-1	30 DE-1	30 DE-1				
Number of Decimals	0							
Trt Treatment	Rate	Other Rate	Other Rate	Appl Unit Code	14*	15*	16*	17*
No. Name								
10					40.0 b	99.3 a	100.0 a	73 ab
10 Gramoxone	1.13 lb ai/a	3 pt/a		B				
10 Tricor	0.375 lb ai/a	12 oz/a		B				
10 NIS	0.25 % v/v	0.25 % v/v		B				
10 Interline	0.585 lb ai/a	32 oz/a		D				
10 AMSOL	5 % v/v	5 % v/v		D				
LSD P=.05					35.64	20.81	4.18	31.5
Standard Deviation					20.78	12.13	2.43	18.4
CV					35.5	16.52	2.72	24.09
Grand Mean					58.53	73.43	89.33	76.3
Levene's F					0.405	0.869	0.889	0.632
Levene's Prob(F)					0.918	0.567	0.552	0.757
Rank X2					.	.	.	.
P(Rank X2)					.	.	.	.
Skewness					-0.472	-1.2595*	-2.7749*	-1.2651*
Kurtosis					-0.7016	0.3483	6.1782*	0.3526
Replicate F					2.272	0.690	2.250	3.322
Replicate Prob(F)					0.1319	0.5141	0.1342	0.0592
Treatment F					4.399	22.309	499.750	8.465
Treatment Prob(F)					0.0037	0.0001	0.0001	0.0001

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The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	TAROF
Pest Scientific Name	Setaria faberi Ambrosia trifida Conyza canadensis			
Pest Name	foxtail, giant ragweed, giant			
Crop Type, Code	C	GLXMA		
Crop Name	Soybean			
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing				
Days After First/Last Applic.	231 14	231 14	231 14	231 14
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	18*	19*	20*	21*	22*
1	UNTREATED CHECK						0 -	0 d	0 d	0 c	0 e
2	WEEDMASTER	32 fl oz/a		0.97 lb ai/a		A	0 -	67 b	77 abc	100 a	90 ab
2	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
2	N Pak AMS	5 % v/v		5 % v/v		A					
2	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B					
2	Tricor	0.094 lb ai/a		3 oz/a		B					
2	Interline	0.585 lb ai/a		32 oz/a		B					
2	AMSOL	5 % v/v		5 % v/v		B					
2	Interline	0.585 lb ai/a		32 oz/a		D					
2	AMSOL	5 % v/v		5 % v/v		D					
3	AUDIT 1:1	0.75 oz/a		0.0234 lb ai/a		A	0 -	57 bc	70 bc	100 a	100 a
3	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
3	N Pak AMS	5 % v/v		5 % v/v		A					
3	Tripzin ZC	0.91 lb ai/a		29 oz/a		B					
3	Interline	0.585 lb ai/a		32 oz/a		B					
3	AMSOL	5 % v/v		5 % v/v		B					
3	Interline	0.585 lb ai/a		32 oz/a		D					
3	AMSOL	5 % v/v		5 % v/v		D					
4	AUDIT 1:1	1 oz/a		0.0313 lb ai/a		A	0 -	76 ab	73 abc	100 a	100 a
4	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
4	N Pak AMS	5 % v/v		5 % v/v		A					
4	Shutdown	0.0975 lb ai/a		3 oz/a		B					
4	Tricor	0.188 lb ai/a		6 oz/a		B					
4	Interline	0.585 lb ai/a		32 oz/a		B					
4	AMSOL	5 % v/v		5 % v/v		B					
4	Interline	0.585 lb ai/a		32 oz/a		D					
4	AMSOL	5 % v/v		5 % v/v		D					
5	SHUTDOWN	3 fl oz/a		0.0975 lb ai/a		A	0 -	60 bc	67 c	93 b	97 a
5	TRICOR	6 fl oz/a		0.188 lb ai/a		A					
5	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
5	N Pak AMS	5 % v/v		5 % v/v		A					
5	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		B					
5	Upstage	0.49 lb ai/a		21 oz/a		B					
5	Interline	0.585 lb ai/a		32 oz/a		B					
5	AMSOL	5 % v/v		5 % v/v		B					
5	Interline	0.585 lb ai/a		32 oz/a		D					
5	AMSOL	5 % v/v		5 % v/v		D					

Means followed by same letter or symbol do not significantly differ (P=,05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
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The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	ERICA	TAROF
Pest Scientific Name	Setaria faberi Ambrosia trifida Conyza canadensis			
Pest Name	foxtail, giant ragweed, giant			
Crop Type, Code	C	GLXMA		
Crop Name	Soybean			
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020
Rating Timing				
Days After First/Last Applic.	231 14	231 14	231 14	231 14
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	18*	19*	20*	21*	22*
6	SHUTDOWN	4 fl oz/a		0.13 lb ai/a		A	5 -	95 a	92 a	100 a	100 a
6	TRICOR	8 fl oz/a		0.25 lb ai/a		A					
6	ROUNDUP POWER MAX	32 fl oz/a		1.38 lb ae/a		A					
6	N Pak AMS	5 % v/v		5 % v/v		A					
6	Moccasin II PLus	1.24 lb ai/a		1.3 pt/a		C					
6	Classic	0.0156 lb ai/a		1 oz/a		C					
6	Interline	0.585 lb ai/a		32 oz/a		C					
6	AMSOL	5 % v/v		5 % v/v		C					
6	Interline	0.585 lb ai/a		32 oz/a		E					
6	AMSOL	5 % v/v		5 % v/v		E					
7							0 -	53 bc	73 abc	100 a	43 d
7	Roundup Powermax	1.13 lb ae/a		32 oz/a		B					
7	Zidua Pro	0.144 lb ai/a		4.5 oz/a		B					
7	MSO	1 % v/v		1 % v/v		B					
7	AMSOL	5 % v/v		5 % v/v		B					
7	Liberty	0.585 lb ai/a		32 oz/a		D					
7	AMSOL	5 % v/v		5 % v/v		D					
8							0 -	62 b	70 bc	100 a	67 bcd
8	Fierce MTZ	0.33 lb ai/a		16 oz/a		B					
8	Scout	0.53 lb ai/a		29 oz/a		B					
8	AMSOL	5 % v/v		5 % v/v		B					
8	Scout	0.585 lb ai/a		32 oz/a		D					
8	AMSOL	5 % v/v		5 % v/v		D					
9							0 -	57 bc	83 abc	100 a	53 cd
9	Panther Pro	0.397 lb ai/a		12 oz/a		B					
9	Cheetah	0.585 lb ai/a		32 oz/a		B					
9	AMSOL	5 % v/v		5 % v/v		B					
9	Cheetah	0.585 lb ai/a		32 oz/a		D					
9	AMSOL	5 % v/v		5 % v/v		D					

Means followed by same letter or symbol do not significantly differ (P=,05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
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The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Trial ID: 20FALLSOY2
 Protocol ID: FALL /SPRING CORN-SOY
 Project ID: 20FALLSOY2

Location: Western Branch F-9 East Trial Year: 2019
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Joe Reed, UPL

Pest Type		W Weed	W Weed	W Weed	W Weed					
Pest Code		SETFA	AMBTR	ERICA	TAROF					
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Conyza canadens>	Taraxacum offi>					
Pest Name		foxtail, giant ragweed, giant		horseweed	dandelion					
Crop Type, Code	C GLXMA									
Crop Name	Soybean									
Rating Date	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020	Jul-8-2020					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Data Entry Date	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020	Jul-9-2020					
Rating Timing										
Days After First/Last Applic.	231 14	231 14	231 14	231 14	231 14					
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D	29 DA-D					
Plant-Eval Interval	62 DP-1	62 DP-1	62 DP-1	62 DP-1	62 DP-1					
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1	44 DE-1					
Number of Decimals	0	0	0	0	0					
Trt Treatment	Rate	Rate	Other	Other	Appl	18*	19*	20*	21*	22*
No. Name	Unit	Unit	Rate	Rate	Unit Code					
10						0 -	37 c	87 ab	100 a	73 abc
10 Gramoxone	1.13 lb ai/a		3 pt/a		B					
10 Tricor	0.375 lb ai/a		12 oz/a		B					
10 NIS	0.25 % v/v		0.25 % v/v		B					
10 Interline	0.585 lb ai/a		32 oz/a		D					
10 AMSOL	5 % v/v		5 % v/v		D					
LSD P=.05						4.7	23.8	20.0	6.3	28.9
Standard Deviation						2.7	13.9	11.7	3.7	16.8
CV						547.72	24.69	16.85	4.09	23.29
Grand Mean						0.5	56.3	69.2	89.3	72.3
Levene's F						1.00	0.414	1.16	1.00	1.127
Levene's Prob(F)						0.471	0.912	0.37	0.471	0.389
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						5.4772*	-0.4188	-1.6553*	-2.7435*	-1.0436*
Kurtosis						30.0*	-0.1609	2.603*	6.0387*	-0.4451
Replicate F						1.000	4.925	2.840	1.000	4.277
Replicate Prob(F)						0.3874	0.0197	0.0847	0.3874	0.0302
Treatment F						1.000	9.670	14.468	222.667	11.359
Treatment Prob(F)						0.4742	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Due to missing data, larger LSD values (col. 4: >=28.9 and <=35.4) are used for mean comparisons of treatment pairs with missing data.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 3,12 because error mean square = 0.

The Ohio State University

UPL Fall - Spring Burndown Programs in Soybean

Location: Western Branch F-9 East Trial Year: 2019

Investigator: Dr. Mark M. Loux

Study Director: Anthony Dobbels

Sponsor Contact: Joe Reed, UPL

Trial ID: 20FALLSOY2
Protocol ID: FALL /SPRING CORN-SOY
Project ID: 20FALLSOY2

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

STEME, Stellaria media, Common chickweed = US
LAMPU, Lamium purpureum, Purple deadnettle = US
AMBTR, Ambrosia trifida, Giant ragweed = US
RANAB, Ranunculus abortivus, Smallflower buttercup = US
CARPE, Cardamine pensylvanica, Pennsylvania bittercress = US
VERAG, Veronica agrestis, Field speedwell = US
SETFA, Setaria faberi, Giant foxtail = US
ERICA, Erigeron canadensis, Canada horseweed = US
TAROF, Taraxacum officinale, Blowball = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
SETFA, Setaria faberi, foxtail, giant = US
AMBTR, Ambrosia trifida, ragweed, giant = US
ERICA, Conyza canadensis, horseweed = US
TAROF, Taraxacum officinale, dandelion = US

Crop Type Code

C = EPP0 species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

CONTRO = control / burndown or knockdown
PHYGEN = phytotoxicity - general / injury

Rating Unit

% = percent

Plant-Eval Interval

0 DP-1 = 1 GLXMA May-7-2020
32 DP-1 = 1 GLXMA May-7-2020
48 DP-1 = 1 GLXMA May-7-2020
62 DP-1 = 1 GLXMA May-7-2020