

Purdue Weed Science

Evaluating Antaganism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

General Trial Information

Study Director: Joe Ikley **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Joe Ikley **Title:** Research Associate
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-4656
City+State/Prov: West Lafayette **Mobile No.:** 765-404-9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Cooperator/Landowner

Cooperator: Jay Young **Role:** Superintendent
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909
Country: USA United States **E-mail:** jayyoung@purdue.edu

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: DKC 62-08
Description: F2
Planting Rate, Unit: 32000 S/A **Planting Method:** PLANTD planted
Depth, Unit: 1.5 IN **Planting Equipment:** FPP Finger Pickup Planter
Row Spacing, Unit: 30 IN **Emergence Date:** May-25-2016
Soil Temperature, Unit: 62 F
Soil Moisture: NORMAL normal, adequate

Pest Description

Pest 1 Type: W **Code:** ZEAMX Zea mays
Common Name: Corn
Description: F2
Artificial Population: X **Establishment Date:** May-18-2016
Establishment Rate, Unit: 32000 Seeds/A

Site and Design

Treated Plot Width: 10 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 300 FT2 **Treatments:** 40 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Soil Description

Description Name: TPAC - Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3

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Application Description

	A	B	C
Application Date:	Jun-13-2016	Jun-19-2016	Jun-27-2016
Appl. Start Time:	1:00 PM	5:30 PM	11:15 AM
Appl. Stop Time:	2:00 PM	6:30 PM	12:15 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	12" ZEAMX	24" ZEAMX	36" ZEAMX
Application Placement:	BROADC	BROADC	BROADC
Applied By:	MZ	JI	TC
Air Temperature, Unit:	85 F	88 F	86 F
% Relative Humidity:	30	50	60
Wind Velocity, Unit:	3 MPH	5 MPH	4 MPH
Wind Direction:	SSE	S	W
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	83 F	90 F	81 F
Soil Moisture:	DRY	DRY	SLIWET
% Cloud Cover:	10	70	5

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	ZEAMX W	ZEAMX W	ZEAMX W
Stage Majority, Percent:	33	37	38
Stage Minimum, Percent:	32	36	37
Stage Maximum, Percent:	34	38	39
Height, Unit:	10 IN	22 IN	33 IN
Height Minimum, Maximum:	6 12	16 28	28 38

Application Equipment

	A	B	C
Appl. Equipment:	CO2 BACKPACK	CO2 BACKPACK	CO2 BACKPACK
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	18 PSI	18 PSI	18 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 11002	XR 11002	XR 11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	17 IN	17 IN	17 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	MEIGS	MEIGS	MEIGS
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	1.8 liters	1.8 liters
Propellant:	CO2	CO2	CO2

Date	By	Notes
Jun-27-2016	TC	PLOT 514 NOT SPRAYED
		PLOT 414 SPRAYED TWICE

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Trial Comments

Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check								101	302	612	714
2	ROUNDUP POWERMAX SELECT MAX ACTIVATOR 90 - NIS	4.5 0.97 90 %	LBAE/GAL LB/GAL %	SL L L	32 fl oz/a 6 fl oz/a 0.25 % v/v	A A A		30.0 ml/mx 5.625 ml/mx 4.5 ml/mx	102	307	616	810
3	ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	4.5 0.97 4 90 %	LBAE/GAL LB/GAL LBAE/GAL %	SL L L L	32 fl oz/a 6 fl oz/a 1 pt/a 0.25 % v/v	A A A A		30.0 ml/mx 5.625 ml/mx 15.0 ml/mx 4.5 ml/mx	103	312	617	701
4	ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	4.5 0.97 4 90 %	LBAE/GAL LB/GAL LBAE/GAL %	SL L L L	32 fl oz/a 8 fl oz/a 1 pt/a 0.25 % v/v	A A A A		30.0 ml/mx 7.5 ml/mx 15.0 ml/mx 4.5 ml/mx	104	402	516	811
5	ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	4.5 0.97 4 90 %	LBAE/GAL LB/GAL LBAE/GAL %	SL L L L	32 fl oz/a 10 fl oz/a 1 pt/a 0.25 % v/v	A A A A		30.0 ml/mx 9.375 ml/mx 15.0 ml/mx 4.5 ml/mx	105	311	619	815
6	ROUNDUP POWERMAX ASSURE II ACTIVATOR 90 - NIS	4.5 0.88 90 %	LBAE/GAL LB/GAL %	SL EC L	32 fl oz/a 5 fl oz/a 0.25 % v/v	A A A		30.0 ml/mx 4.687 ml/mx 4.5 ml/mx	106	317	513	819
7	ROUNDUP POWERMAX ASSURE II CLARITY ACTIVATOR 90 - NIS	4.5 0.88 4 90 %	LBAE/GAL LB/GAL LBAE/GAL %	SL EC L L	32 fl oz/a 5 fl oz/a 1 pt/a 0.25 % v/v	A A A A		30.0 ml/mx 4.687 ml/mx 15.0 ml/mx 4.5 ml/mx	107	418	508	711
8	ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	4.5 0.97 3.8 90 %	LBAE/GAL LB/GAL LB/GAL %	SL L L L	32 fl oz/a 6 fl oz/a 1 qt/a 0.25 % v/v	A A A A		30.0 ml/mx 5.625 ml/mx 30.0 ml/mx 4.5 ml/mx	108	403	504	803
9	ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	4.5 0.97 3.8 90 %	LBAE/GAL LB/GAL LB/GAL %	SL L L L	32 fl oz/a 8 fl oz/a 1 qt/a 0.25 % v/v	A A A A		30.0 ml/mx 7.5 ml/mx 30.0 ml/mx 4.5 ml/mx	109	316	519	805
10	ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	4.5 0.97 3.8 90 %	LBAE/GAL LB/GAL LB/GAL %	SL L L L	32 fl oz/a 10 fl oz/a 1 qt/a 0.25 % v/v	A A A A		30.0 ml/mx 9.375 ml/mx 30.0 ml/mx 4.5 ml/mx	110	406	606	712
11	ROUNDUP POWERMAX ASSURE II WEEDAR 64 ACTIVATOR 90 - NIS	4.5 0.88 3.8 90 %	LBAE/GAL LB/GAL LB/GAL %	SL EC L L	32 fl oz/a 5 fl oz/a 1 qt/a 0.25 % v/v	A A A A		30.0 ml/mx 4.687 ml/mx 30.0 ml/mx 4.5 ml/mx	111	410	614	818
32	SCEPTER ROUNDUP POWERMAX MSO ULTRA N-PAK - AMS	70 % 4.5 100 % 3.4	% LBAE/GAL % LBA/GAL	DF SL L L	1.4 oz/a 28 fl oz/a 0.5 % v/v 2.5 % v/v	A A A A		1.258 g/mx 26.25 ml/mx 8.999 ml/mx 45.0 ml/mx	112	315	509	705
33	SELECT MAX ROUNDUP POWERMAX SCEPTER MSO ULTRA N-PAK - AMS	0.97 4.5 70 % 100 % 3.4	LB/GAL LBAE/GAL % % LBA/GAL	L SL DF L L	16 fl oz/a 28 fl oz/a 1.4 oz/a 0.5 % v/v 2.5 % v/v	A A A A A		15.0 ml/mx 26.25 ml/mx 1.258 g/mx 8.999 ml/mx 45.0 ml/mx	113	415	502	702

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Appl Code	Amt to Measure	Rep 1	Rep 2	Rep 3	Rep 4
34	FLEXSTAR GT 3.5	2.82	LBAE/GAL	L	3 pt/a	A	45.0 ml/mx	114	319	601	801
	SCEPTER	70 %		DF	1.4 oz/a	A	1.258 g/mx				
	MSO ULTRA	100 %		L	0.5 % v/v	A	8.999 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	A	45.0 ml/mx				
12	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	115	420	510	707
	SELECT MAX	0.97	LB/GAL	L	9 fl oz/a	B	8.437 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
13	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	116	419	520	816
	SELECT MAX	0.97	LB/GAL	L	9 fl oz/a	B	8.437 ml/mx				
	CLARITY	4	LBAE/GAL	L	1 pt/a	B	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
14	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	117	408	517	807
	SELECT MAX	0.97	LB/GAL	L	11 fl oz/a	B	10.31 ml/mx				
	CLARITY	4	LBAE/GAL	L	1 pt/a	B	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
15	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	118	318	610	813
	SELECT MAX	0.97	LB/GAL	L	13 fl oz/a	B	12.19 ml/mx				
	CLARITY	4	LBAE/GAL	L	1 pt/a	B	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
16	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	119	404	602	802
	ASSURE II	0.88	LB/GAL	EC	6.5 fl oz/a	B	6.094 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
17	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	120	314	512	817
	ASSURE II	0.88	LB/GAL	EC	6.5 fl oz/a	B	6.094 ml/mx				
	CLARITY	4	LBAE/GAL	L	1 pt/a	B	15.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
18	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	201	306	501	718
	SELECT MAX	0.97	LB/GAL	L	9 fl oz/a	B	8.437 ml/mx				
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	B	30.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
19	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	202	405	511	713
	SELECT MAX	0.97	LB/GAL	L	11 fl oz/a	B	10.31 ml/mx				
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	B	30.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
20	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	203	407	618	719
	SELECT MAX	0.97	LB/GAL	L	13 fl oz/a	B	12.19 ml/mx				
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	B	30.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
21	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	B	30.0 ml/mx	204	310	604	808
	ASSURE II	0.88	LB/GAL	EC	6.5 fl oz/a	B	6.094 ml/mx				
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	B	30.0 ml/mx				
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	B	4.5 ml/mx				
35	SCEPTER	70 %		DF	1.4 oz/a	B	1.258 g/mx	205	308	603	809
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	B	26.25 ml/mx				
	MSO ULTRA	100 %		L	0.5 % v/v	B	8.999 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx				
36	SELECT MAX	0.97	LB/GAL	L	16 fl oz/a	B	15.0 ml/mx	206	409	605	709
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	B	26.25 ml/mx				
	SCEPTER	70 %		DF	1.4 oz/a	B	1.258 g/mx				
	MSO ULTRA	100 %		L	0.5 % v/v	B	8.999 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx				

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
37	FLEXSTAR GT 3.5	2.82	LBAE/GAL	L	3 pt/a	B	45.0 ml/mx		207	401	613	703
	SCEPTER	70 %		DF	1.4 oz/a	B	1.258 g/mx					
	MSO ULTRA	100 %		L	0.5 % v/v	B	8.999 ml/mx					
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	B	45.0 ml/mx					
22	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		208	417	507	812
	SELECT MAX	0.97	LB/GAL	L	12 fl oz/a	C	11.25 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
23	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		209	313	505	708
	SELECT MAX	0.97	LB/GAL	L	12 fl oz/a	C	11.25 ml/mx					
	CLARITY	4	LBAE/GAL	L	1 pt/a	C	15.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
24	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		210	412	620	716
	SELECT MAX	0.97	LB/GAL	L	14 fl oz/a	C	13.12 ml/mx					
	CLARITY	4	LBAE/GAL	L	1 pt/a	C	15.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
25	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		211	301	514	704
	SELECT MAX	0.97	LB/GAL	L	16 fl oz/a	C	15.0 ml/mx					
	CLARITY	4	LBAE/GAL	L	1 pt/a	C	15.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
26	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		212	416	608	804
	ASSURE II	0.88	LB/GAL	EC	8 fl oz/a	C	7.5 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
27	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		213	413	607	706
	ASSURE II	0.88	LB/GAL	EC	8 fl oz/a	C	7.5 ml/mx					
	CLARITY	4	LBAE/GAL	L	1 pt/a	C	15.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
28	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		214	309	515	717
	SELECT MAX	0.97	LB/GAL	L	12 fl oz/a	C	11.25 ml/mx					
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	C	30.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
29	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		215	320	503	820
	SELECT MAX	0.97	LB/GAL	L	14 fl oz/a	C	13.12 ml/mx					
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	C	30.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
30	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		216	305	615	814
	SELECT MAX	0.97	LB/GAL	L	16 fl oz/a	C	15.0 ml/mx					
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	C	30.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
31	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	32 fl oz/a	C	30.0 ml/mx		217	304	609	806
	ASSURE II	0.88	LB/GAL	EC	8 fl oz/a	C	7.5 ml/mx					
	WEEDAR 64	3.8	LB/GAL	L	1 qt/a	C	30.0 ml/mx					
	ACTIVATOR 90 - NIS	90 %		L	0.25 % v/v	C	4.5 ml/mx					
38	SCEPTER	70 %		DF	1.4 oz/a	C	1.258 g/mx		218	411	611	715
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	C	26.25 ml/mx					
	MSO ULTRA	100 %		L	0.5 % v/v	C	8.999 ml/mx					
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					
39	SELECT MAX	0.97	LB/GAL	L	16 fl oz/a	C	15.0 ml/mx		219	303	506	720
	ROUNDUP POWERMAX	4.5	LBAE/GAL	SL	28 fl oz/a	C	26.25 ml/mx					
	SCEPTER	70 %		DF	1.4 oz/a	C	1.258 g/mx					
	MSO ULTRA	100 %		L	0.5 % v/v	C	8.999 ml/mx					
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx					

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 GAL/AC Mix Size: 1.8 liters (calculated mix size 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
40	FLEXSTAR GT 3.5	2.82	LBAE/GAL	L	3 pt/a	C	45.0 ml/mx	220	414	518	710
	SCEPTER	70 %		DF	1.4 oz/a	C	1.258 g/mx				
	MSO ULTRA	100 %		L	0.5 % v/v	C	8.999 ml/mx				
	N-PAK - AMS	3.4	LBA/GAL	L	2.5 % v/v	C	45.0 ml/mx				

Sort Order: Replicate 1

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
1,321.874	ml	ROUNDUP POWERMAX	4.5	SL	
319.922	ml	SELECT MAX	.97	L	
168.732	ml	ACTIVATOR 90 - NIS	90	L	
225.000	ml	CLARITY	4	L	
68.555	ml	ASSURE II	.88	EC	
449.999	ml	WEEDAR 64	3.8	L	
14.154	g	SCEPTER	70	DF	
101.239	ml	MSO ULTRA	100	L	
506.195	ml	N-PAK - AMS	3.4	L	
168.750	ml	FLEXSTAR GT 3.5	2.82	L	

* 'Per area' calculations based on spray volume= 15 GAL/AC, mix size= 1.8 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 15 GAL/AC, mix size= 1.8 liters.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX			
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29			
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C			
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1			
ARM Action Codes	P	P	P	P	P	P			
Number of Decimals	0	0	0	0	0	0			
Trt No.	Treatment Name	Rate	Appl Code	1	2	3	4	5	6
1	Untreated Check			0	0	0	0	0	0
		101		0	0	0	0	0	0
		302		0	0	0	0	0	0
		612		0	0	0	0	0	0
		714		0	0	0	0	0	0
	Mean =	0		0	0	0	0	0	0
2	ROUNDUP POWERMAX	32 fl oz/a A	102	90	99				
	SELECT MAX	6 fl oz/a A	307	85	90				
	ACTIVATOR 90 - NIS	0.25 % v/v A	616	85	95				
		810		85	99				
	Mean =			86	96				
3	ROUNDUP POWERMAX	32 fl oz/a A	103	80	65				
	SELECT MAX	6 fl oz/a A	312	65	40				
	CLARITY	1 pt/a A	617	70	35				
	ACTIVATOR 90 - NIS	0.25 % v/v A	701	55	35				
	Mean =			68	44				

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
4 ROUNDUP POWERMAX	32 fl oz/a A	104	80	95				
SELECT MAX	8 fl oz/a A	402	85	99				
CLARITY	1 pt/a A	516	85	95				
ACTIVATOR 90 - NIS	0.25 % v/v A	811	80	90				
	Mean =		83	95	.	.	.	.
5 ROUNDUP POWERMAX	32 fl oz/a A	105	85	99				
SELECT MAX	10 fl oz/a A	311	95	100				
CLARITY	1 pt/a A	619	90	100				
ACTIVATOR 90 - NIS	0.25 % v/v A	815	90	99				
	Mean =		90	100	.	.	.	.
6 ROUNDUP POWERMAX	32 fl oz/a A	106	95	100				
ASSURE II	5 fl oz/a A	317	95	99				
ACTIVATOR 90 - NIS	0.25 % v/v A	513	95	100				
	Mean =		95	100	.	.	.	.
7 ROUNDUP POWERMAX	32 fl oz/a A	107	10	10				
ASSURE II	5 fl oz/a A	418	15	20				
CLARITY	1 pt/a A	508	15	10				
ACTIVATOR 90 - NIS	0.25 % v/v A	711	20	10				
	Mean =		15	13	.	.	.	.
8 ROUNDUP POWERMAX	32 fl oz/a A	108	65	60				
SELECT MAX	6 fl oz/a A	403	75	65				
WEEDAR 64	1 qt/a A	504	70	85				
ACTIVATOR 90 - NIS	0.25 % v/v A	803	70	80				
	Mean =		70	73	.	.	.	.
9 ROUNDUP POWERMAX	32 fl oz/a A	109	80	90				
SELECT MAX	8 fl oz/a A	316	90	95				
WEEDAR 64	1 qt/a A	519	90	99				
ACTIVATOR 90 - NIS	0.25 % v/v A	805	85	99				
	Mean =		86	96	.	.	.	.
10 ROUNDUP POWERMAX	32 fl oz/a A	110	90	95				
SELECT MAX	10 fl oz/a A	406	85	99				
WEEDAR 64	1 qt/a A	606	85	100				
ACTIVATOR 90 - NIS	0.25 % v/v A	712	95	99				
	Mean =		89	98	.	.	.	.
11 ROUNDUP POWERMAX	32 fl oz/a A	111	20	5				
ASSURE II	5 fl oz/a A	410	10	10				
WEEDAR 64	1 qt/a A	614	15	20				
ACTIVATOR 90 - NIS	0.25 % v/v A	818	15	10				
	Mean =		15	11	.	.	.	.
12 ROUNDUP POWERMAX	32 fl oz/a B	115			99	100		
SELECT MAX	9 fl oz/a B	420			90	100		
ACTIVATOR 90 - NIS	0.25 % v/v B	510			95	99		
	Mean =				99	100		
		707			96	100		
13 ROUNDUP POWERMAX	32 fl oz/a B	116			95	100		
SELECT MAX	9 fl oz/a B	419			80	85		
CLARITY	1 pt/a B	520			85	97		
ACTIVATOR 90 - NIS	0.25 % v/v B	816			95	100		
	Mean =				89	96		

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
14 ROUNDUP POWERMAX	32 fl oz/a B	117			95	90		
SELECT MAX	11 fl oz/a B	408			95	100		
CLARITY	1 pt/a B	517			97	100		
ACTIVATOR 90 - NIS	0.25 % v/v B	807			99	100		
Mean =			.	.	97	98	.	.
15 ROUNDUP POWERMAX	32 fl oz/a B	118			97	95		
SELECT MAX	13 fl oz/a B	318			95	95		
CLARITY	1 pt/a B	610			85	99		
ACTIVATOR 90 - NIS	0.25 % v/v B	813			99	100		
Mean =			.	.	94	97	.	.
16 ROUNDUP POWERMAX	32 fl oz/a B	119			100	100		
ASSURE II	6.5 fl oz/a B	404			99	100		
ACTIVATOR 90 - NIS	0.25 % v/v B	602			99	100		
		802			95	100		
Mean =			.	.	98	100	.	.
17 ROUNDUP POWERMAX	32 fl oz/a B	120			90	95		
ASSURE II	6.5 fl oz/a B	314			95	99		
CLARITY	1 pt/a B	512			90	95		
ACTIVATOR 90 - NIS	0.25 % v/v B	817			97	100		
Mean =			.	.	93	97	.	.
18 ROUNDUP POWERMAX	32 fl oz/a B	201			95	100		
SELECT MAX	9 fl oz/a B	306			90	90		
WEEDAR 64	1 qt/a B	501			95	99		
ACTIVATOR 90 - NIS	0.25 % v/v B	718			85	99		
Mean =			.	.	91	97	.	.
19 ROUNDUP POWERMAX	32 fl oz/a B	202			97	100		
SELECT MAX	11 fl oz/a B	405			95	99		
WEEDAR 64	1 qt/a B	511			95	100		
ACTIVATOR 90 - NIS	0.25 % v/v B	713			97	100		
Mean =			.	.	96	100	.	.
20 ROUNDUP POWERMAX	32 fl oz/a B	203			99	100		
SELECT MAX	13 fl oz/a B	407			99	100		
WEEDAR 64	1 qt/a B	618			97	100		
ACTIVATOR 90 - NIS	0.25 % v/v B	719			97	100		
Mean =			.	.	98	100	.	.
21 ROUNDUP POWERMAX	32 fl oz/a B	204			30	30		
ASSURE II	6.5 fl oz/a B	310			35	40		
WEEDAR 64	1 qt/a B	604			35	30		
ACTIVATOR 90 - NIS	0.25 % v/v B	808			30	35		
Mean =			.	.	33	34	.	.
22 ROUNDUP POWERMAX	32 fl oz/a C	208					70	85
SELECT MAX	12 fl oz/a C	417					75	90
ACTIVATOR 90 - NIS	0.25 % v/v C	507					60	80
		812					75	80
Mean =			.	.	.	.	70	84
23 ROUNDUP POWERMAX	32 fl oz/a C	209					65	85
SELECT MAX	12 fl oz/a C	313					50	85
CLARITY	1 pt/a C	505					40	90
ACTIVATOR 90 - NIS	0.25 % v/v C	708					65	85
Mean =			.	.	.	.	55	86

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
24 ROUNDUP POWERMAX	32 fl oz/a C	210					85	85
SELECT MAX	14 fl oz/a C	412					65	80
CLARITY	1 pt/a C	620					70	85
ACTIVATOR 90 - NIS	0.25 % v/v C	716					75	85
Mean =			.	.	.	.	74	84
25 ROUNDUP POWERMAX	32 fl oz/a C	211					85	90
SELECT MAX	16 fl oz/a C	301					75	85
CLARITY	1 pt/a C	514					.	.
ACTIVATOR 90 - NIS	0.25 % v/v C	704					85	95
Mean =			.	.	.	.	82	90
26 ROUNDUP POWERMAX	32 fl oz/a C	212					95	100
ASSURE II	8 fl oz/a C	416					97	100
ACTIVATOR 90 - NIS	0.25 % v/v C	608					80	98
		804					95	100
Mean =			.	.	.	.	92	100
27 ROUNDUP POWERMAX	32 fl oz/a C	213					70	85
ASSURE II	8 fl oz/a C	413					55	75
CLARITY	1 pt/a C	607					70	95
ACTIVATOR 90 - NIS	0.25 % v/v C	706					60	85
Mean =			.	.	.	.	64	85
28 ROUNDUP POWERMAX	32 fl oz/a C	214					70	90
SELECT MAX	12 fl oz/a C	309					70	97
WEEDAR 64	1 qt/a C	515					40	90
ACTIVATOR 90 - NIS	0.25 % v/v C	717					70	90
Mean =			.	.	.	.	63	92
29 ROUNDUP POWERMAX	32 fl oz/a C	215					80	90
SELECT MAX	14 fl oz/a C	320					75	90
WEEDAR 64	1 qt/a C	503					60	97
ACTIVATOR 90 - NIS	0.25 % v/v C	820					90	95
Mean =			.	.	.	.	76	93
30 ROUNDUP POWERMAX	32 fl oz/a C	216					85	95
SELECT MAX	16 fl oz/a C	305					85	90
WEEDAR 64	1 qt/a C	615					65	90
ACTIVATOR 90 - NIS	0.25 % v/v C	814					80	95
Mean =			.	.	.	.	79	93
31 ROUNDUP POWERMAX	32 fl oz/a C	217					20	10
ASSURE II	8 fl oz/a C	304					50	20
WEEDAR 64	1 qt/a C	609					25	10
ACTIVATOR 90 - NIS	0.25 % v/v C	806					10	10
Mean =			.	.	.	.	26	13
32 SCEPTER	1.4 oz/a A	112	50	30				
ROUNDUP POWERMAX	28 fl oz/a A	315	55	40				
MSO ULTRA	0.5 % v/v A	509	50	45				
N-PAK - AMS	2.5 % v/v A	705	55	65				
Mean =			53	45	.	.	.	.

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
33 SELECT MAX	16 fl oz/a A	113	55	30				
ROUNDUP POWERMAX	28 fl oz/a A	415	60	50				
SCEPTER	1.4 oz/a A	502	65	50				
MSO ULTRA	0.5 % v/v A	702	50	50				
N-PAK - AMS	2.5 % v/v A							
Mean =			58	45	.	.	.	.
34 FLEXSTAR GT 3.5	3 pt/a A	114	50	40				
SCEPTER	1.4 oz/a A	319	50	90				
MSO ULTRA	0.5 % v/v A	601	65	50				
N-PAK - AMS	2.5 % v/v A	801	55	65				
Mean =			55	61	.	.	.	.
35 SCEPTER	1.4 oz/a B	205			50	60		
ROUNDUP POWERMAX	28 fl oz/a B	308			55	70		
MSO ULTRA	0.5 % v/v B	603			40	55		
N-PAK - AMS	2.5 % v/v B	809			50	50		
Mean =			.	.	49	59	.	.
36 SELECT MAX	16 fl oz/a B	206			65	80		
ROUNDUP POWERMAX	28 fl oz/a B	409			60	85		
SCEPTER	1.4 oz/a B	605			60	95		
MSO ULTRA	0.5 % v/v B	709			70	85		
N-PAK - AMS	2.5 % v/v B							
Mean =			.	.	64	86	.	.
37 FLEXSTAR GT 3.5	3 pt/a B	207			50	70		
SCEPTER	1.4 oz/a B	401			60	75		
MSO ULTRA	0.5 % v/v B	613			50	65		
N-PAK - AMS	2.5 % v/v B	703			65	70		
Mean =			.	.	56	70	.	.
38 SCEPTER	1.4 oz/a C	218					30	50
ROUNDUP POWERMAX	28 fl oz/a C	411					25	50
MSO ULTRA	0.5 % v/v C	611					30	40
N-PAK - AMS	2.5 % v/v C	715					35	40
Mean =			.	.	.	.	30	45
39 SELECT MAX	16 fl oz/a C	219					40	65
ROUNDUP POWERMAX	28 fl oz/a C	303					40	70
SCEPTER	1.4 oz/a C	506					45	75
MSO ULTRA	0.5 % v/v C	720					35	75
N-PAK - AMS	2.5 % v/v C							
Mean =			.	.	.	.	40	71
40 FLEXSTAR GT 3.5	3 pt/a C	220					30	60
SCEPTER	1.4 oz/a C	414					50	65
MSO ULTRA	0.5 % v/v C	518					50	60
N-PAK - AMS	2.5 % v/v C	710					35	60
Mean =			.	.	.	.	41	61

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 ZEAMX, Zea mays, = US
Part Rated
 PLOT = plot
 P = Pest is Part Rated
Rating Type
 CONTRO = control / burndown or knockdown

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Rating Unit
 % = percent
 ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0 f	0 d	0 f	0 f	0 f	0 g
2 ROUNDUP POWERMAX SELECT MAX ACTIVATOR 90 - NIS	32 fl oz/a A 6 fl oz/a A 0.25 % v/v A		86 ab	96 a				
3 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a A 6 fl oz/a A 1 pt/a A 0.25 % v/v A		68 c	44 c				
4 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a A 8 fl oz/a A 1 pt/a A 0.25 % v/v A		83 b	95 a				
5 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a A 10 fl oz/a A 1 pt/a A 0.25 % v/v A		90 ab	100 a				
6 ROUNDUP POWERMAX ASSURE II ACTIVATOR 90 - NIS	32 fl oz/a A 5 fl oz/a A 0.25 % v/v A		95 a	100 a				
7 ROUNDUP POWERMAX ASSURE II CLARITY ACTIVATOR 90 - NIS	32 fl oz/a A 5 fl oz/a A 1 pt/a A 0.25 % v/v A		15 e	13 d				
8 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a A 6 fl oz/a A 1 qt/a A 0.25 % v/v A		70 c	73 b				
9 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a A 8 fl oz/a A 1 qt/a A 0.25 % v/v A		86 ab	96 a				
10 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a A 10 fl oz/a A 1 qt/a A 0.25 % v/v A		89 ab	98 a				
11 ROUNDUP POWERMAX ASSURE II WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a A 5 fl oz/a A 1 qt/a A 0.25 % v/v A		15 e	11 d				
12 ROUNDUP POWERMAX SELECT MAX ACTIVATOR 90 - NIS	32 fl oz/a B 9 fl oz/a B 0.25 % v/v B				96 a	100 a		

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
13 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 9 fl oz/a B 1 pt/a B 0.25 % v/v B				89 a	96 a		
14 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 11 fl oz/a B 1 pt/a B 0.25 % v/v B				97 a	98 a		
15 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 13 fl oz/a B 1 pt/a B 0.25 % v/v B				94 a	97 a		
16 ROUNDUP POWERMAX ASSURE II ACTIVATOR 90 - NIS	32 fl oz/a B 6.5 fl oz/a B 0.25 % v/v B				98 a	100 a		
17 ROUNDUP POWERMAX ASSURE II CLARITY ACTIVATOR 90 - NIS	32 fl oz/a B 6.5 fl oz/a B 1 pt/a B 0.25 % v/v B				93 a	97 a		
18 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a B 9 fl oz/a B 1 qt/a B 0.25 % v/v B				91 a	97 a		
19 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a B 11 fl oz/a B 1 qt/a B 0.25 % v/v B				96 a	100 a		
20 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a B 13 fl oz/a B 1 qt/a B 0.25 % v/v B				98 a	100 a		
21 ROUNDUP POWERMAX ASSURE II WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a B 6.5 fl oz/a B 1 qt/a B 0.25 % v/v B				33 e	34 e		
22 ROUNDUP POWERMAX SELECT MAX ACTIVATOR 90 - NIS	32 fl oz/a C 12 fl oz/a C 0.25 % v/v C						70 bc	84 b
23 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a C 12 fl oz/a C 1 pt/a C 0.25 % v/v C						55 cd	86 b
24 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a C 14 fl oz/a C 1 pt/a C 0.25 % v/v C						74 abc	84 b

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	4
25 ROUNDUP POWERMAX SELECT MAX CLARITY ACTIVATOR 90 - NIS	32 fl oz/a C 16 fl oz/a C 1 pt/a C 0.25 % v/v C					82 ab
26 ROUNDUP POWERMAX ASSURE II ACTIVATOR 90 - NIS	32 fl oz/a C 8 fl oz/a C 0.25 % v/v C					92 a
27 ROUNDUP POWERMAX ASSURE II CLARITY ACTIVATOR 90 - NIS	32 fl oz/a C 8 fl oz/a C 1 pt/a C 0.25 % v/v C					64 bc
28 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a C 12 fl oz/a C 1 qt/a C 0.25 % v/v C					63 bc
29 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a C 14 fl oz/a C 1 qt/a C 0.25 % v/v C					76 ab
30 ROUNDUP POWERMAX SELECT MAX WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a C 16 fl oz/a C 1 qt/a C 0.25 % v/v C					79 ab
31 ROUNDUP POWERMAX ASSURE II WEEDAR 64 ACTIVATOR 90 - NIS	32 fl oz/a C 8 fl oz/a C 1 qt/a C 0.25 % v/v C					26 e
32 SCEPTER ROUNDUP POWERMAX MSO ULTRA N-PAK - AMS	1.4 oz/a A 28 fl oz/a A 0.5 % v/v A 2.5 % v/v A		53 d	45 c		
33 SELECT MAX ROUNDUP POWERMAX SCEPTER MSO ULTRA N-PAK - AMS	16 fl oz/a A 28 fl oz/a A 1.4 oz/a A 0.5 % v/v A 2.5 % v/v A		58 d	45 c		
34 FLEXSTAR GT 3.5 SCEPTER MSO ULTRA N-PAK - AMS	3 pt/a A 1.4 oz/a A 0.5 % v/v A 2.5 % v/v A		55 d	61 bc		
35 SCEPTER ROUNDUP POWERMAX MSO ULTRA N-PAK - AMS	1.4 oz/a B 28 fl oz/a B 0.5 % v/v B 2.5 % v/v B			49 d	59 d	
36 SELECT MAX ROUNDUP POWERMAX SCEPTER MSO ULTRA N-PAK - AMS	16 fl oz/a B 28 fl oz/a B 1.4 oz/a B 0.5 % v/v B 2.5 % v/v B			64 b	86 b	

Purdue Weed Science

Evaluating Antagonism of Growth Regulators and Select Max for Control of Volunteer Corn

Trial ID: 16S-TPAC-VC-13 Location: TPAC Trial Year: 2016
 Protocol ID: 16S-TPAC-VC-13 Investigator: Dr. Bill Johnson
 Project ID: Select Max 64.10 Study Director: Joe Ikley
 Sponsor Contact: Valent - Eric Ott

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
Pest Name	Corn	Corn	Corn	Corn	Corn	Corn		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	Jun-26-2016	Jul-11-2016	Jul-5-2016	Jul-19-2016	Jul-11-2016	Jul-26-2016		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Days After First/Last Applic.	13 7	28 14	22 8	36 22	28 14	43 29		
Trt-Eval Interval	13 DA-A	28 DA-A	16 DA-B	30 DA-B	14 DA-C	29 DA-C		
Days After Emergence	32 DE-1	47 DE-1	41 DE-1	55 DE-1	47 DE-1	62 DE-1		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
37 FLEXSTAR GT 3.5	3 pt/a	B			56 c	70 c		
SCEPTER	1.4 oz/a	B						
MSO ULTRA	0.5 % v/v	B						
N-PAK - AMS	2.5 % v/v	B						
38 SCEPTER	1.4 oz/a	C					30 e	45 e
ROUNDUP POWERMAX	28 fl oz/a	C						
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
39 SELECT MAX	16 fl oz/a	C					40 de	71 c
ROUNDUP POWERMAX	28 fl oz/a	C						
SCEPTER	1.4 oz/a	C						
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
40 FLEXSTAR GT 3.5	3 pt/a	C					41 de	61 d
SCEPTER	1.4 oz/a	C						
MSO ULTRA	0.5 % v/v	C						
N-PAK - AMS	2.5 % v/v	C						
LSD P=.05	7.1	13.5	6.3	6.4	13.5	6.2		
Standard Deviation	5.0	9.4	4.4	4.5	9.4	4.3		
CV	8.07	15.05	5.81	5.52	17.1	6.25		
Bartlett's X2	11.755	53.836	21.851	28.32	12.028	15.3		
P(Bartlett's X2)	0.382	0.001*	0.039*	0.002*	0.443	0.225		
Skewness	-0.8152*	-0.4367	-1.2875*	-1.6884*	-0.5817	-1.3411*		
Kurtosis	-0.6355	-1.3602*	0.6357	1.8149*	-0.4855	0.5458		
Replicate F	0.597	1.208	2.033	0.276	2.163	0.069		
Replicate Prob(F)	0.6206	0.3197	0.1251	0.8425	0.1083	0.9759		
Treatment F	158.379	60.427	195.595	187.374	29.473	202.818		
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Pest Type
 W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
 ZEAMX, Zea mays, = US
Part Rated
 PLOT = plot
 P = Pest is Part Rated
Rating Type
 CONTRO = control / burndown or knockdown
Rating Unit
 % = percent
ARM Action Codes
 P = Rating scale of 0 to 100 (e.g. % control or injury)