

Crop safety of residual herbicide combinations in Roundup Ready 2 Xtend soybean

Trial ID: SOY12-20 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, T-12 Investigator: Christy Sprague

Planting Date: May-23-2020 **Row Spacing:** 30 IN
Variety: AG26X8 **No. of Reps:** 4
Population: 156000 seeds/A **% OM:** 3.7
Soil Type: CL clay loam **pH:** 6.3
Plot Size: 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plowed, fall soil finished, Spring soil finished (2X)

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1			
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May-23-2020	Jun-24-2020
Time Treated:	4:45 PM	8:05 AM
% Cloud Cover:	70	0
Air Temp., Unit:	77 F	61 F
% Relative Humidity:	70	0
Wind Speed/Unit/Dir:	8.5 mph SE	7 mph W
Soil Temp, Unit:	68 F	61 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	5	4

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		8 "
Stage:		V4

Weed Stage at Each Application

	A	B
Weed 1 Name:		
Height:		
Stage:		

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	TT1	11003	22 "	20 "	100 "	19 GPA	WATER	27 psi
B	CUB	3.8 mph	TT1	11003	27 "	20 "	100 "	19 GPA	WATER	27 psi

Comments: This trial was kept weed-free to assess the impacts of herbicide injury on soybean yield.

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Protocol ID: SOY12-20 **Investigator (Creator): Christy Sprague**
Project ID: **Study Director: Sprague, Stiles, Powell**
Sponsor Contact:

Crop Type, Code	C	GLXMA	C	GLXMA	C	GLXMA	C	GLXMA
Rating Date	Jun-27-2020	Jul-1-2020	Jul-8-2020	Jul-15-2020				
Rating Type	injury		injury		injury		injury	
Rating Unit	percent		percent		percent		percent	
Trt-Eval Interval	3 DA-B		7 DA-B		14 DA-B		21 DA-B	
Number of Decimals	0		0		0		0	

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code				
1	Warrant	3 L		3 pt/a		PRE	A	0	0	0	0
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
2	Warrant	3 L		3 pt/a		PRE	A	10	10	9	0
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Tavium	3.4 L		56.5 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
3	Warrant	3 L		3 pt/a		PRE	A	15	14	9	1
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Dual Magnum	7.62 L		16 fl oz/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
4	Warrant	3 L		3 pt/a		PRE	A	5	2	2	1
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant	3 L		3 pt/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
5	Warrant	3 L		3 pt/a		PRE	A	16	12	8	1
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Outlook	6 L		14 fl oz/a		POST	B				
	Engenia	5 L		12.8 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
6	Warrant	3 L		3 pt/a		PRE	A	6	7	4	0
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Zidua SC	4.17 L		3.26 fl oz/a		POST	B				
	Engenia	5 L		12.8 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
7	Warrant	3 L		3 pt/a		PRE	A	20	21	11	2
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant Ultra	3.45 L		50 fl oz/a		POST	B				
	XtendiMax	2.9 L		22 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	Intact	L		0.5 % v/v		POST	B				
8	Warrant	3 L		3 pt/a		PRE	A	12	14	9	2
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Warrant Ultra	3.45 L		50 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	AMS	WG		17 lb/100 gal		POST	B				
9	Warrant	3 L		3 pt/a		PRE	A	26	25	14	1
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Prefix	5.29 L		32 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	AMS	WG		17 lb/100 gal		POST	B				
10	Warrant	3 L		3 pt/a		PRE	A	29	34	18	3
	XtendiMax	2.9 L		22 fl oz/a		PRE	A				
	Cobra	2 L		12.5 fl oz/a		POST	B				
	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B				
	AMS	WG		17 lb/100 gal		POST	B				
	LSD P=.05							4.7	4.5	3.6	2.7
	Standard Deviation							3.2	3.1	2.5	1.8
	CV							23.33	22.21	30.72	164.15